Operating and Maintenance Handbook

MARCONI INSTRUMENTS LIMITED, ENGLAND

OSCILLOSCOPE
TYPE TF 2200
VOL.2

MP MASTER
MA23635

MP MASTER
MA23635

Vol. II

BLOCK SCHEMATIC DIAGRAMS

CIRCUIT DIAGRAMS

AND

COMPONENT LISTS

CONTENTS

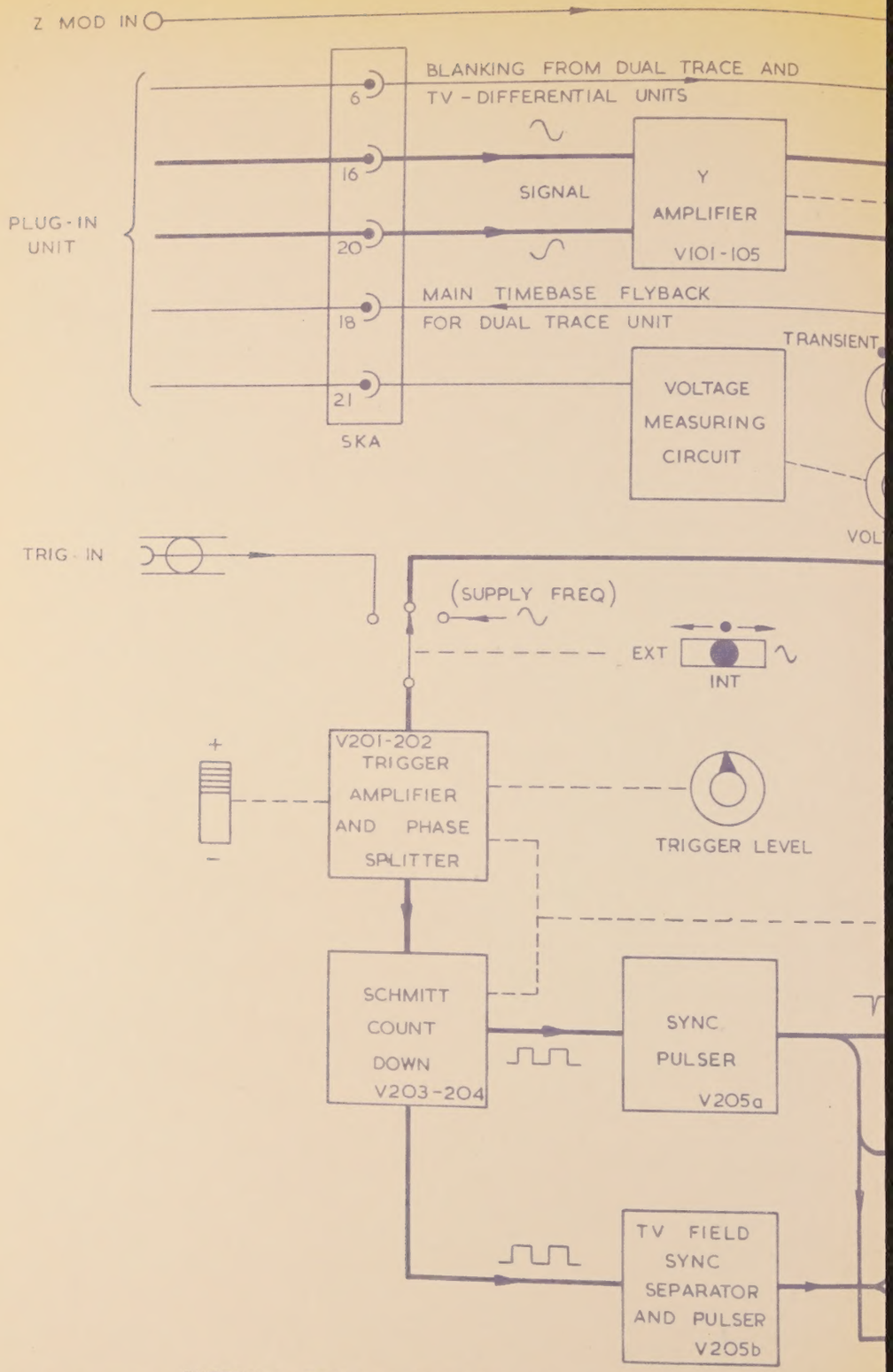
Note : Certain of the diagrams listed below are marked with asterisks. These drawings refer to indivisual Plug-In Units which are Optional Accessories.

The relevant drawings are included, or omitted, according to whether or not a particular Plug-In Unit is supplied with the instrument.

In the event of a Plug-In Unit being ordered separately, the appropriate drawings are supplied for inclusion with the remainder of the Circuit Diagrams.

	Drawing No.
BLOCK SCHEMATIC DIAGRAM OF OSCILLOSCOPE TYPE TF 2200 (Sheet 1)	XD 37330
*BLOCK SCHEMATIC DIAGRAM OF SINGLE-TRACE UNIT TYPE TM 6455 (Sheet 2)	XD 37330
*BLOCK SCHEMATIC DIAGRAM OF DUAL-TRACE UNIT TYPE TM 6456 (Sheet 3)	XD 37330
*BLOCK SCHEMATIC DIAGRAM OF TV-DIFFERENTIAL UNIT TYPE TM 6457 (Sheet 4)	XD 37330
*PLUG-IN SINGLE-TRACE PRE-AMPLIFIER (Circuit Diagram and 3-sheet Component List)	XD 37841
*PLUG-IN DUAL-TRACE PRE-AMPLIFIER (Circuit Diagram and 5-sheet Component List)	XD 34650

	Drawing No.
*PLUG-IN TV-DIFFERENTIAL UNIT (Circuit Diagram and 6-sheet Component List)	XD 38947
SWITCH ATTENUATOR (Circuit Diagram and 2-sheet Component List)	XD 34658
Y AMPLIFIER AND DELAY LINE (2-sheet Circuit Diagram and 4-sheet Component List)	XD 37331
TRIGGER CIRCUIT (Circuit Diagram and 3-sheet Component List)	XD 37332
DELAYING TIME BASE AND RANGE SWITCH (2-sheet Circuit Diagram and 4-sheet Component List)	XD 37333
FUNCTION CIRCUIT (Circuit Diagram and 2-sheet Component List)	XD 37334
MAIN TIME BASE AND RANGE SWITCH (2-sheet Circuit Diagram and 4-sheet Component List)	XD 37335
X AMPLIFIER (Circuit Diagram and 2-sheet Component List)	XD 37336
E.H.T. UNIT AND DISPLAY (Circuit Diagram and 2-sheet Component List)	XD 37337
POWER SUPPLY (Circuit Diagram and 5-sheet Component List)	XD 37338
SOCKET CONNECTION DIAGRAM (Circuit Diagram and 2-sheet Component List)	XD 37339



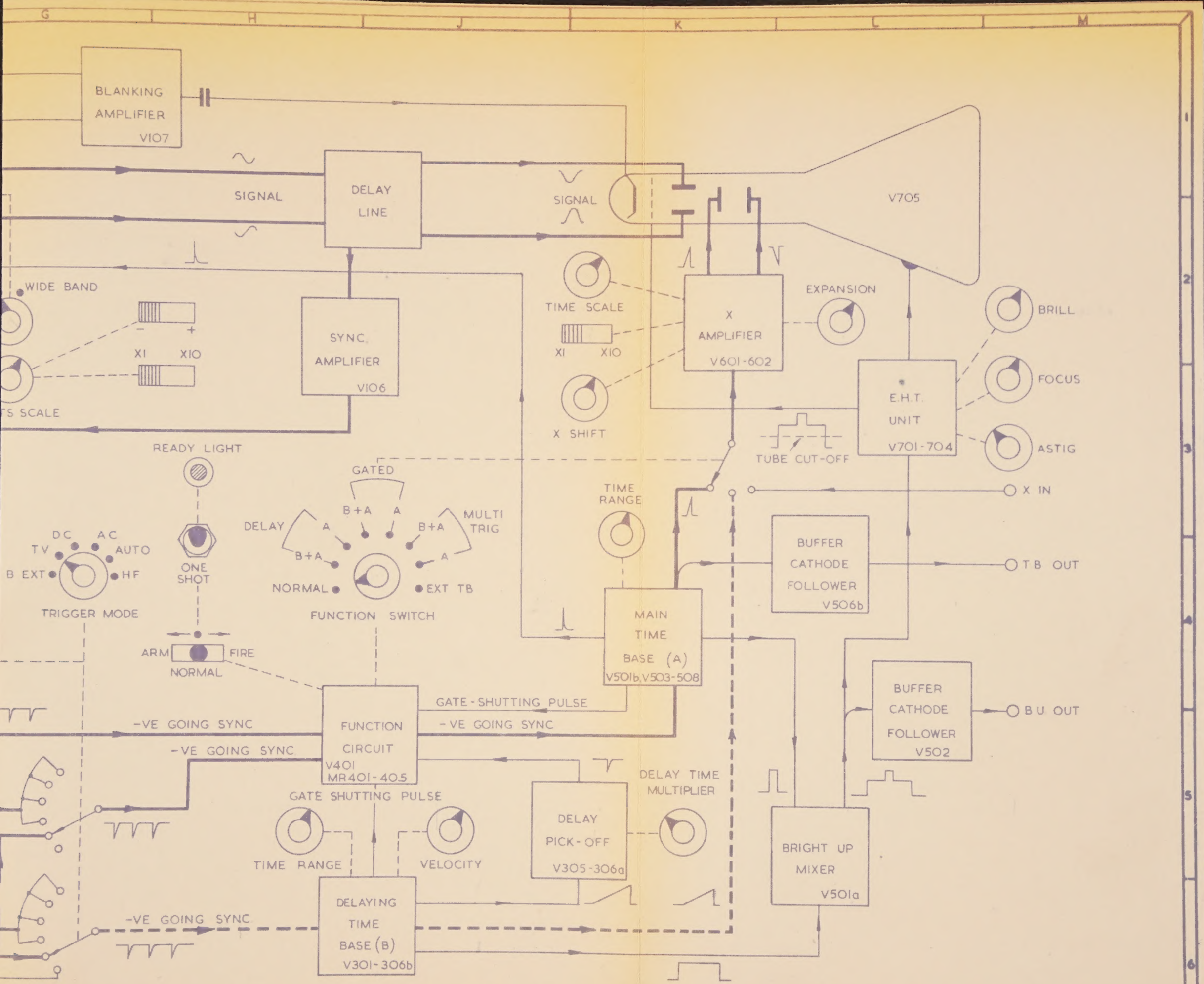
TITLE

BLOCK SCHEMATIC DIAGRAM OF OSCILLOSCOPE TYPE TF2200

DRAWN	DATE	CHKD.	APPD.	TRC.D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
J. K. M.	13-12-61			E.M.T.		TF2200	XD37330

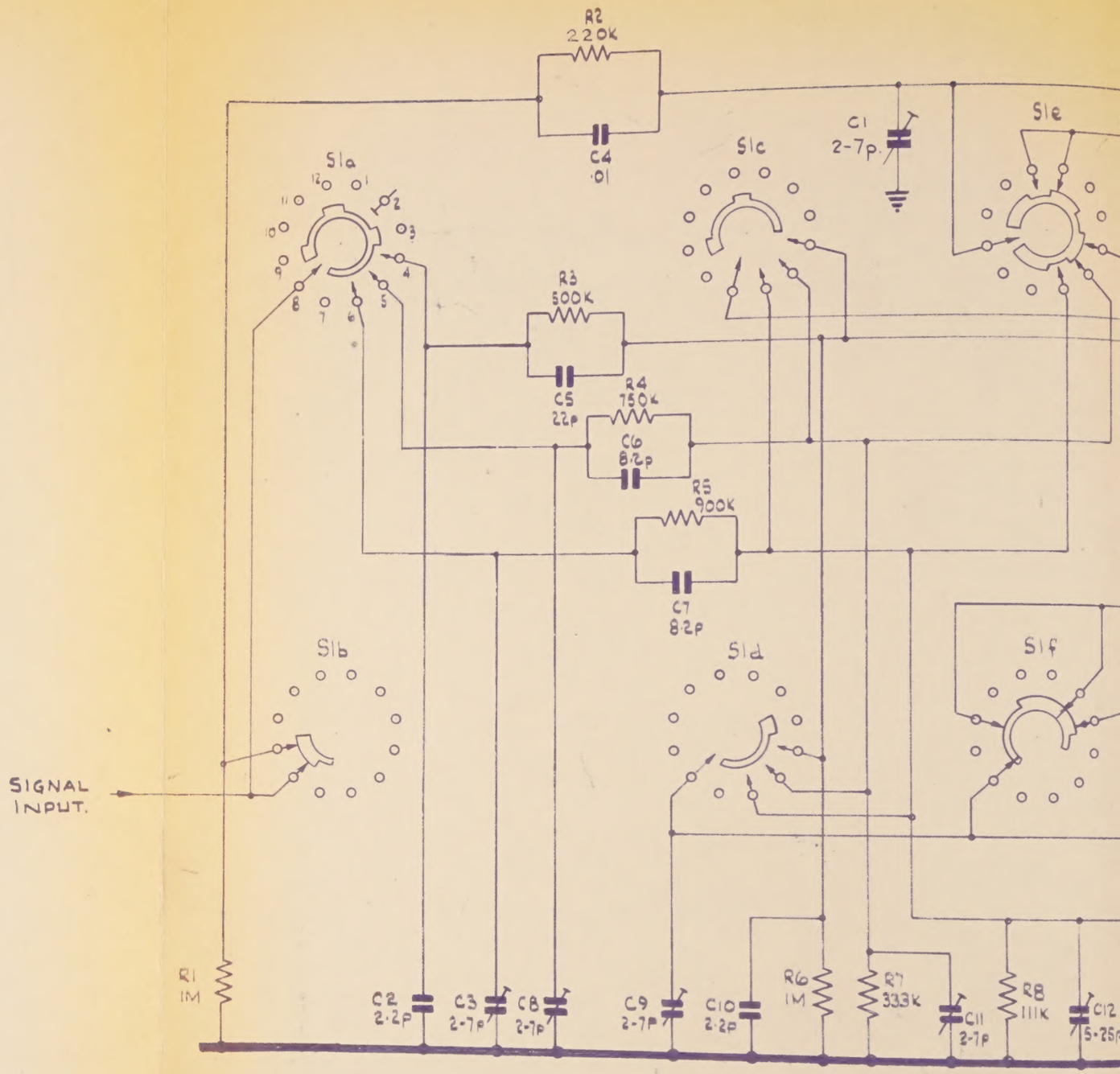
MARCONI INSTRUMENTS LTD.

SHEET 1 OF 4 SHEETS



BLOCK SCHEMATIC DIAGRAM OF OSCILLOSCOPE TYPE TF2200

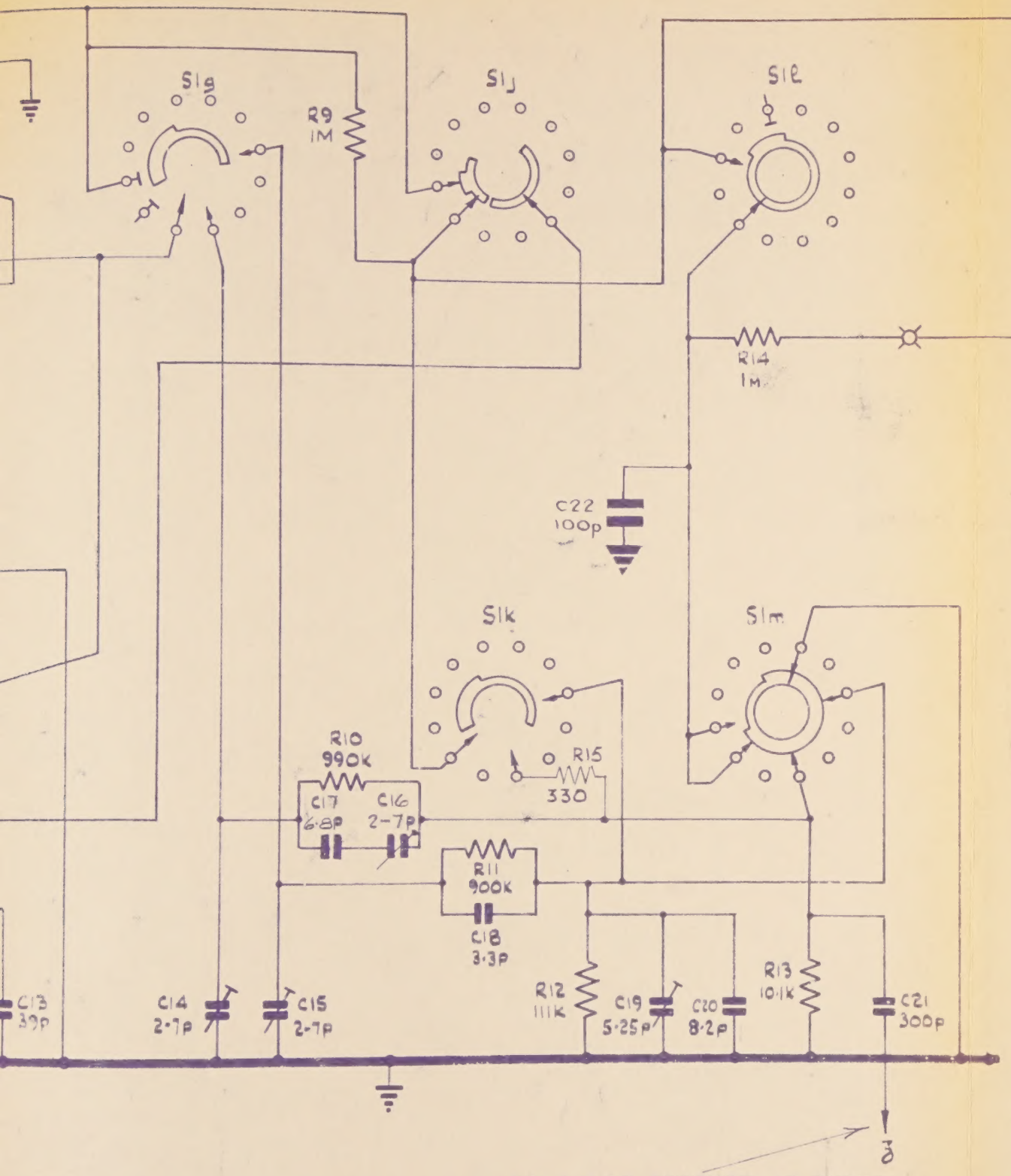
XD 37330 6

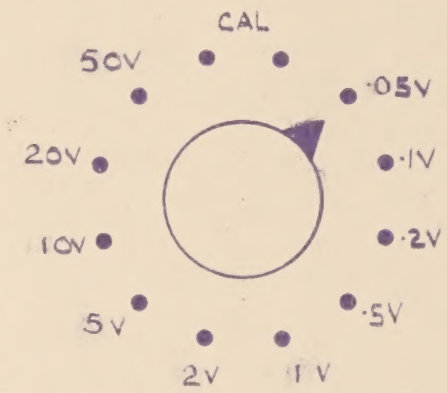


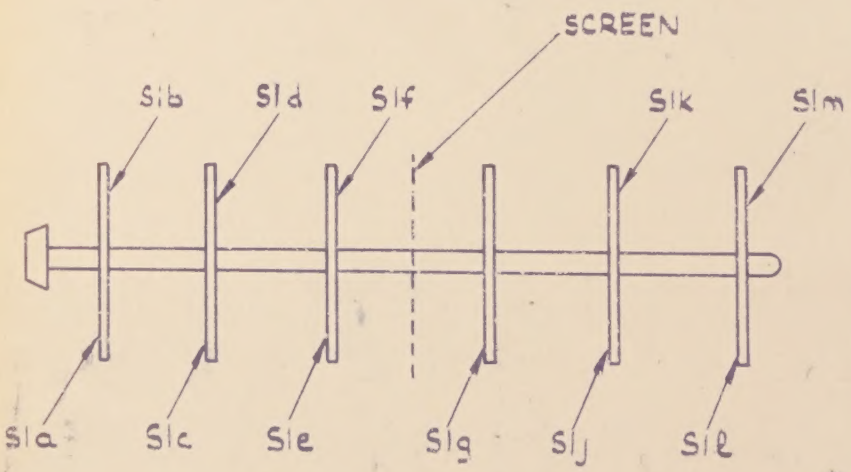
TITLE

SWITCH ATTENUATOR

DRAWN	DATE	CHKD	APPD	TRCD	ASSEMBLY	STOCK LIST	DRAWING NUMBER
D.J. WILLIAMS	8-12-60	J.D.M.		E.M.T.	TC34657	TM6569 TM6569/1	XD 34658
MARCONI INSTRUMENTS LTD.							SHEET OF SHEETS


TO INPUT CATH. FOLLOWER
S1g
S1j
S1l
R9 1M
R14 1M.
CAL. INPUT
C22 100p
S1k
S1m
R10 990K
C17 6·8p
C16 2-7p
R15 330
R11 900K
C18 3·3p
C13 39p
C14 2·7p
C15 2-7p
R12 111K
C19 5·25p
C20 8·2p
R13 10·1K
C21 300p
C21 TO BE EARTHED AS SHOWN ON AMPLIFIER CIRCUIT


CAL
50V
·05V
20V
·1V
10V
·2V
5V
·5V
2V
1V


SCREEN
S1b
S1d
S1f
S1k
S1m
S1a
S1c
S1e
S1g
S1j
S1l

XD34658

ISSUE NO. 2

CIR REF	DESCRIPTION	GRID	STOCK LIST REF	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
	RESISTORS				CAPACITORS		
R1	1MΩ ± 1% ¼W	D5	15 TM 6569 &/1	C1	2 - 7pF TRIMMER	F1	3[illegible] TM
R2	220KΩ ± 10% ½W	E1	24 TM 6569 "	C2	2·2pF ± ½pF 750VDC	D5	31 TM
R3	300KΩ ± 1% ¼W	E2	19 TM 6569 "	C3	2 - 7pF TRIMMER	E5	35 TM
R4	750KΩ ± 1% ¼W	E2	20 TM 6569 "	C4	·01μF ± 20% 400VDC	E1	38 TM
R5	200KΩ ± 1% ¼W	E3	25 TM 6569 "	C5	22pF ± 5% 750VDC	E2	25 TM
R6	1MΩ ± 1% ¼W	F5	23 TM 6569 "	C6	8·2pF ± ½pF 750VDC	E3	34 TM
R7	333KΩ ± 1% ¼W	F3	18 TM 6569 "	C7	8·2pF ± ½pF 750VDC	E3	34 TM
R8	111KΩ ± 1% ¼W	F5	17 TM 6569 "	C8	2 - 7pF TRIMMER	E5	39 TM
R9	1MΩ ± 1% ¼W	H2	23 TM 6569 "	C9	2 - 7pF TRIMMER	E5	39 TM
R10	333KΩ ± 1% ¼W	H4	24 TM 6569 "	C10	4·2pF ± ½pF 750VDC	F5	31 TM
R11	300KΩ ± 1% ¼W	H4	21 TM 6569 "	C11	2 - 7pF TRIMMER	F5	39 TM
R12	111KΩ ± 1% ¼W	J5	17 TM 6569 "	C12	5 - 25pF TRIMMER	G5	40 TM
R13	10·1KΩ ± 1% ¼W	J5	16 TM 6569 "	C13	39pF ± 5% 750VDC	G5	36 TM
R14	1MΩ ± 1% ¼W	J2	23 TM 6569 "	C14	2 - 7pF TRIMMER	G5	39 TM
R15	330Ω ± 10% ½W	H4	25 TM 6569 "	C15	2 - 7pF TRIMMER	H5	39 TM
				C16	2 - 7pF TRIMMER	H4	39 TM
				C17	6·8pF ± ½pF 750VDC	H4	35 TM
				C18	3·9pF ± ½pF 750VDC	H5	36 TM
				C19	5 - 25pF TRIMMER	J5	40 TM
				C20	8·2pF ± ½pF 750VDC	J4	34 TM
				C21	300pF ± 2% 125V	K5	42 TM
					[illegible]	J1	41 TM

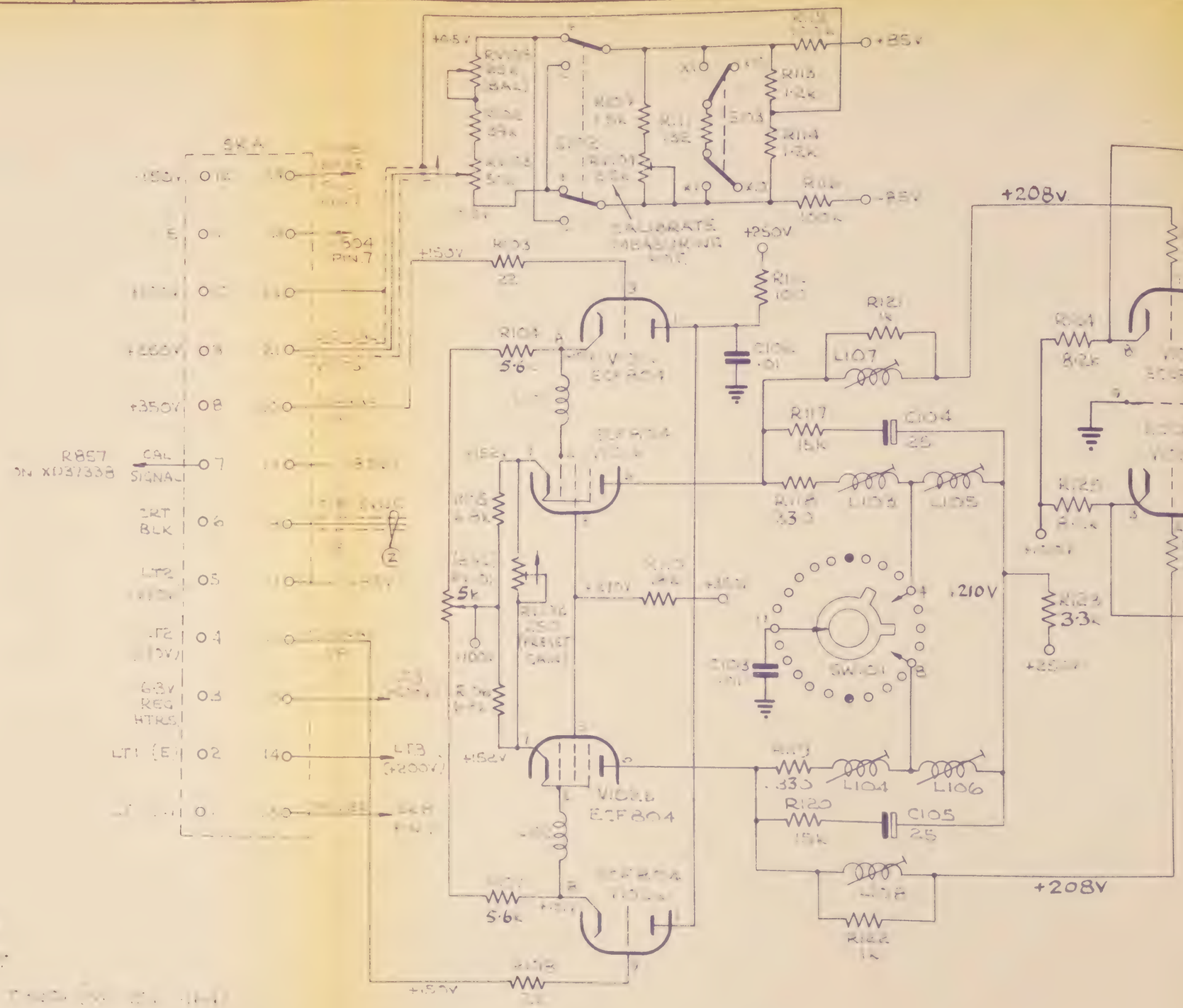
DRAWN W.R.E.	CHKD J.N.M.	USED ON TM 6569	COMPONENT LIST XD34658
DATE [illegible]	APPD. DKW.	SHT. 1 OF 2 SHTS.	
TRACED A.W.	MARCONI INSTRUMENTS LTD.		

ISSUE NO 1

CIR REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	SWITCHES						
S1A		D2					
S1B		D4					
S1C		E2					
S1D		E4					
S1E		F2					
S1F	6 SEC. 12 POS.	F4	1 TM 6569 1 TM 656-/1				
S1G		G2					
S1J		H2					
S1K		H4					
S1L		J2					
S1M		J4					

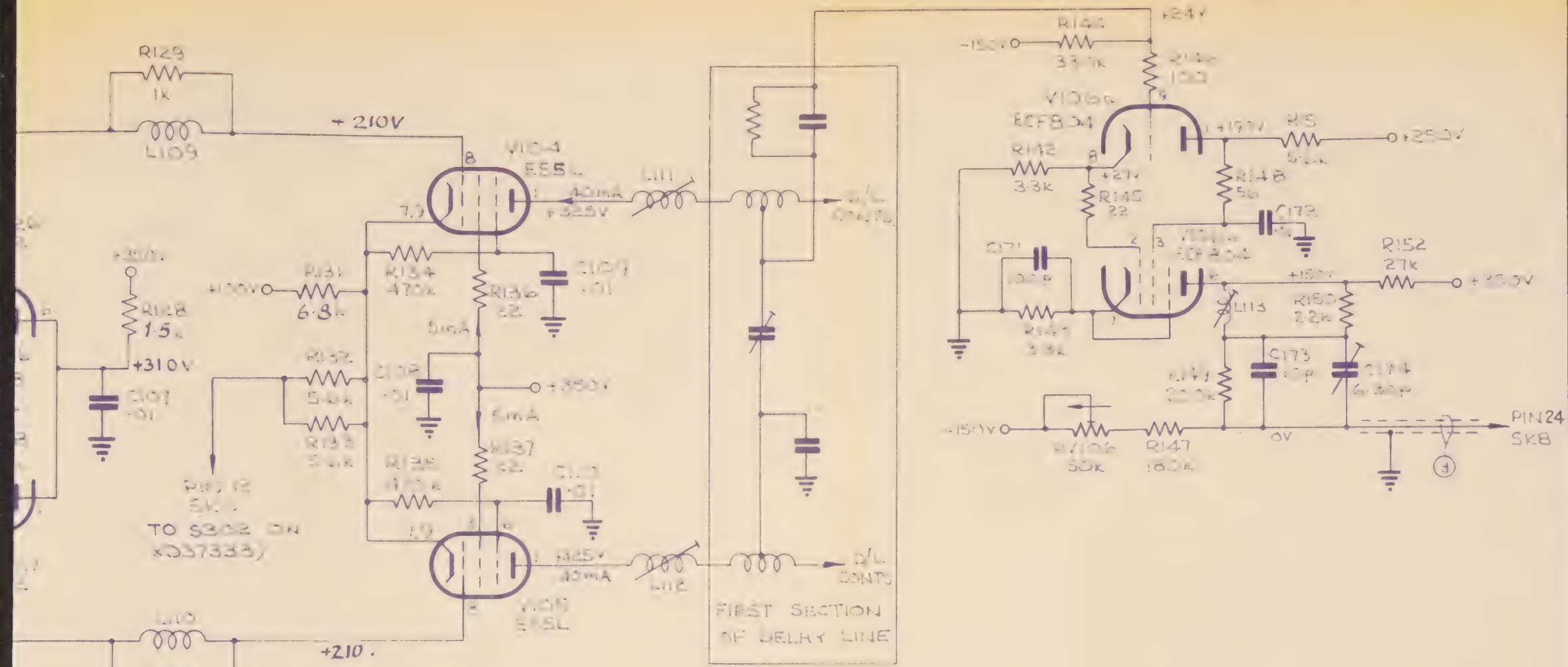
DRAWN J.B.E.	CHKD J.D.M.	USED ON TM 6569	COMPONENT LIST XD 34658
DATE 6:12:60.	APPD.	SHT. 2 OF SHTS.	
TRACED A.W.	MARCONI INSTRUMENTS LTD.		

-000 M59

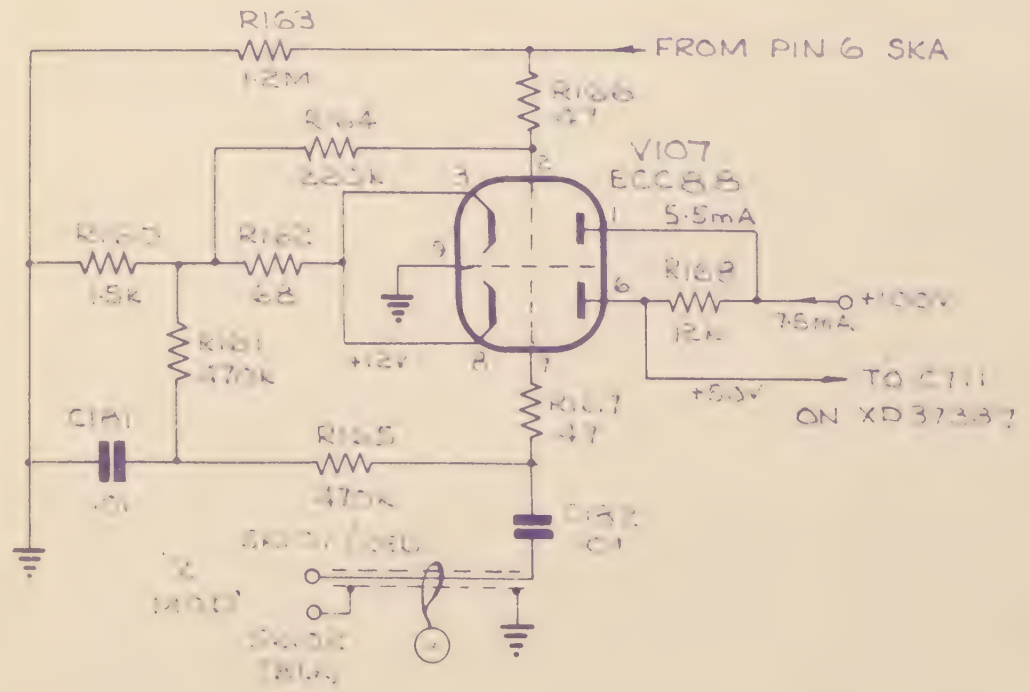


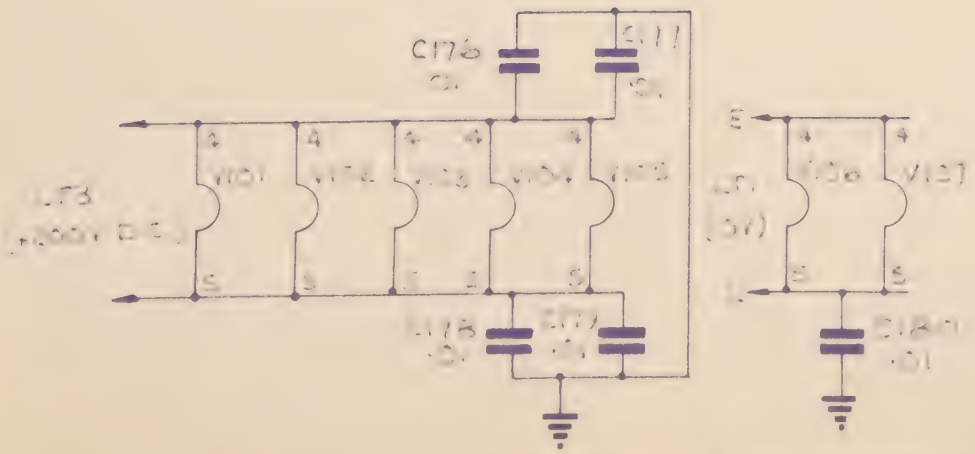
TITLE							
DRAWN	DATE	CHKD.	APPD.	TRC'D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
M.E.LANGAN		T					XD37331
MARCONI INSTRUMENTS LTD.							SHEET OF SHEETS

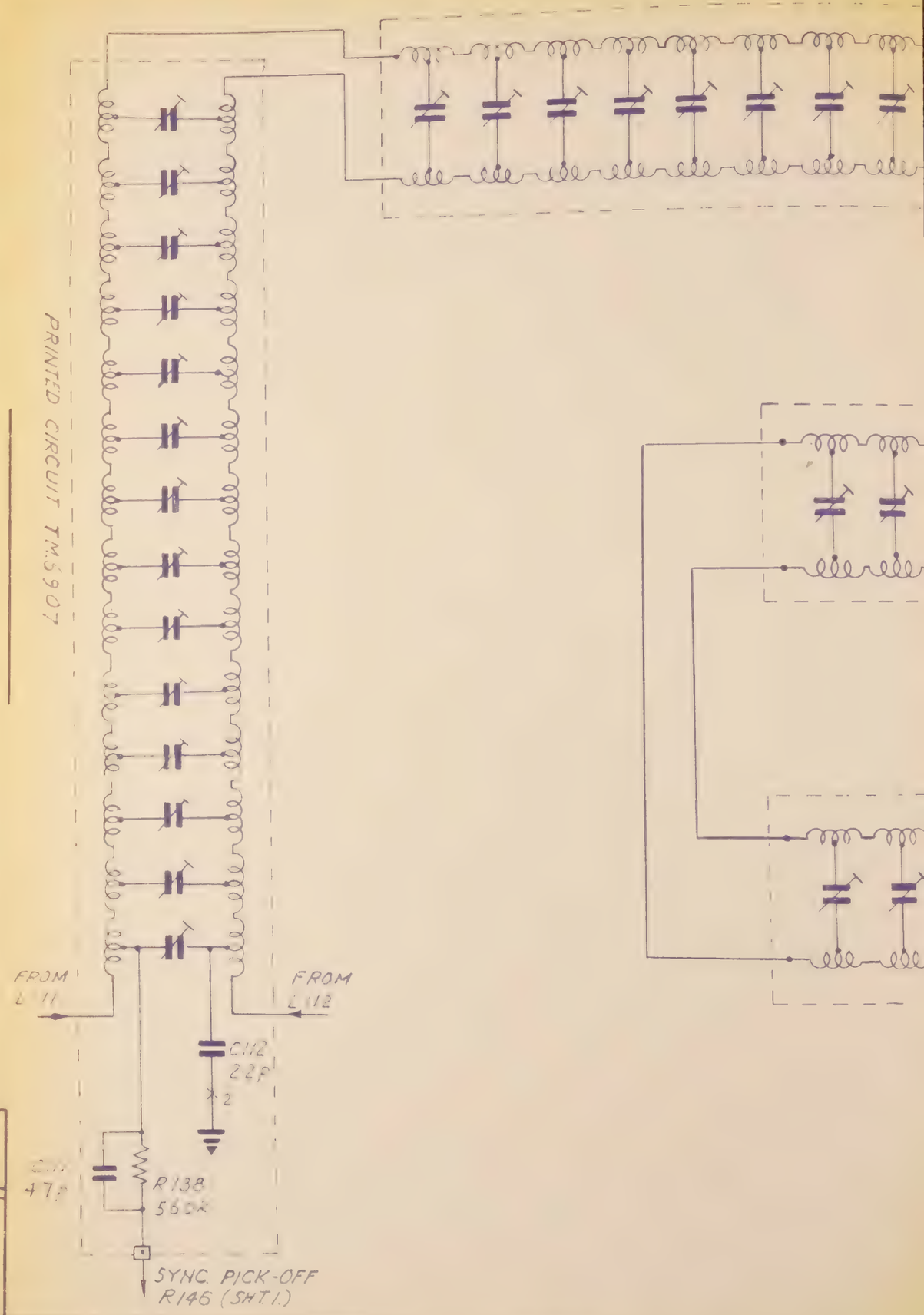
SYNC PICK-OFF AMPLIFIER



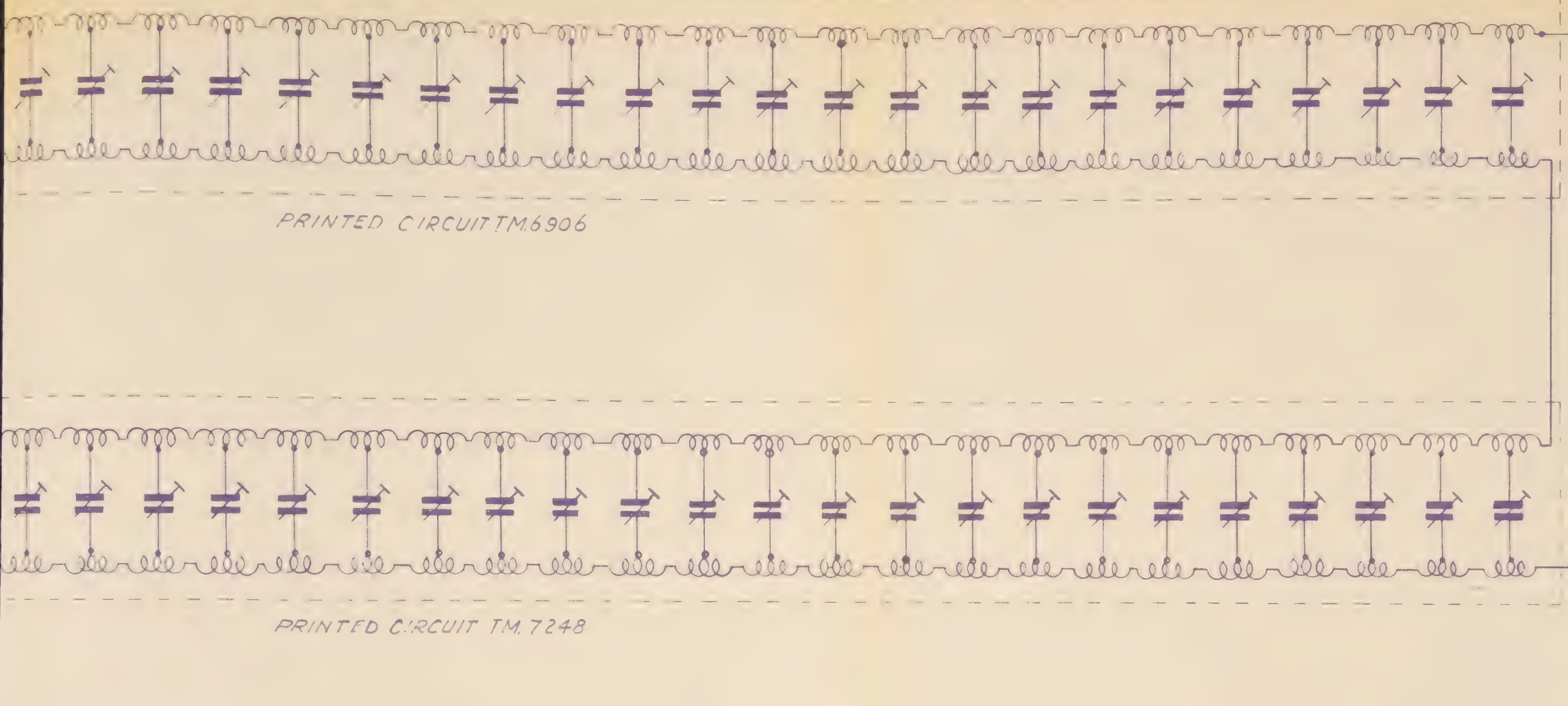
'CHOPPED' TRANSIENT BLANKING CIRCUIT





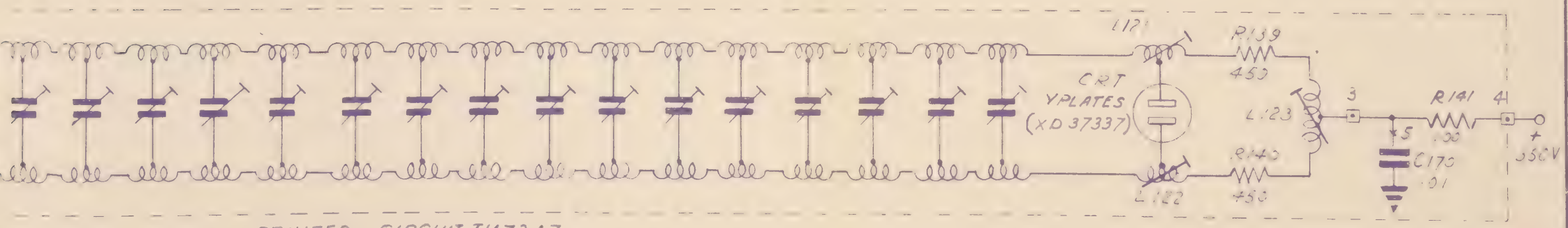


TITLE							
DELAY LINE							
DRAWN	DATE	CHKD	APPD	TRCD.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
B. MIDDLE	7 '62			H.P.	[illegible]	TM6867	XD 37331
MARCONI INSTRUMENTS LTD.							SHEET 2 OF 2 SHEETS



PRINTED CIRCUIT TM.6906

PRINTED CIRCUIT TM.7248



PRINTED CIRCUIT TM.7247

NOTE:- DELAY LINE TRIMMERS CONSIST OF
(88) .7-3pF VARIABLE CAPACITORS EACH IN
PARALLEL WITH A FIXED PRINTED CAPACITOR.

XD 37331

ISSUE Nº 7

CIR. REF	DESCRIPTION	GRID	STOCK LIST REF	CIR. REF	DESCRIPTION	GRID	STOCK LIST REF
	RESISTORS.			R126	220Ω ± 10% ½W	G2 SH.1	102 TF 2200
R100				R127	220 ± 10% ½W	G3 SH.1	102 TF 2200
R101				R128	1·5KΩ ± 5% 2W	G2 SH.1	179 TF 2200
R102	20KΩ ± 5% ½W	D1 SH.1	171 TF 2200	R129	1KΩ ± 10% ½W	G1 SH.1	216 PART OF TF 2200
R103	220Ω ± 10% ½W	D2 SH.1	102 TF 2200	R130	1KΩ ± 10% ½W	G4 SH.1	216 PART OF TF 2200
R104	5·6KΩ ± 5% 1W	D2 SH.1	140 TF2200	R131	6·8KΩ ± 5% 6W	H2 SH.1	160 TF2200
R105	6·8KΩ ± 5% ½W	D3 SH.1	138 TF 2200	R132	5·6KΩ ± 5% 14W	H2 SH.1	165 TF 2200
R106	6·8KΩ ± 5% ½W	D4 SH.1	138 TF 2200	R133	5·6KΩ ± 5% 14W	H2 SH.1	165 TF 2200
R107	5·6KΩ ± 5% 1W	D5 SH.1	140 TF 2200	R134	470KΩ ± 10% ½W	H2 SH.1	121 TF 2200
R108	220Ω ± 10% ½ W	D5 SH.1	102 TF 2200	R135	470KΩ ± 10% ½W	H3 SH.1	121 TF 2200
R109	1·5KΩ ± 5% ½W	E1 SH.1	97 TF 2200	R136	220Ω ± 10% ½W	H2 SH.1	102 TF 2200
R110	18KΩ ± 10% ½W	E2 SH.1	127 TF 2200	R137	220Ω ± 10% ½W	H2 SH.1	102 TF 2200
R111	1320Ω ± 1% ½W	E1 SH.1	145 TF 2200	R138	560KΩ ± 1% ½W	C1 SH.2	12 TM 6007
R112	100Ω ± 10% ½W	E2 SH.1	106 TF 2200	R139	450Ω ± 5% 4W	H4 SH.2	15 TM 6005
R113	1·2KΩ ± 1% ½W	E1 SH.1	148 TF 2200	R140	450Ω ± 5% 4W	H4 SH.2	15 TM 6005
R114	1·2KΩ ± 1% ½W	E1 SH.1	148 TF 2200	R141	100Ω ± 10% ½W	J4 SH.2	16 TM 6005
R115	100KΩ ± 1% ½W	E1 SH.1	142 TF 2200	R142	7·3KΩ ± 10% ½W	L1 SH.1	170 TF 2200
R116	100KΩ ± 1% ½W	E1 SH.1	142 TF 2200	R143	7·3KΩ ± 5% ½W	K SH.1	165 TF 2200
R117	15KΩ ± 10% ½W	E1 SH.1	110 TF 2200	R144	220KΩ ± 1% ½W	L1 SH.1	152 TF 2200
R118	220Ω ± 1% ½W	E3 SH.1	146 TF 2200	R145	220 ± 10% ½W	L2 SH.1	102 TF 2200
R119	220Ω ± 1% ½W	E4 SH.1	146 TF 2200	R146	100Ω ± 10% ½W	L1 SH.1	106 TF 2200
R120	15KΩ ± 10% ½W	E5 SH.1	110 TF 2200	R147	180KΩ ± 1% ½W	L2 SH.1	150 TF 2200
R121	1KΩ ± 10% ½W	F2 SH.1	107 TF 2200	R148	56Ω ± 10% ½W	L1 SH.1	104 TF 2200
R122	1KΩ ± 10% ½W	F2 SH.1	107 TF 2200	R149	200KΩ ± 1% ½W	L2 SH.1	151 TF 2200
R123	2·2KΩ ± 5% 1W	F3 SH.1	129 TF 2200	R150	2·2K ± 10% ½W	M2 SH.1	100 TF 2200
R124	8·2KΩ ± 5% 2W	F2 SH.1	141 TF 2200	R151	5·6KΩ ± 5% 1W	L1 SH.1	140 TF 2200
R125	8·2KΩ ± 5% 2W	F3 SH.1	141 TF 2200	R152	27KΩ ± 5% 2W	M2 SH.1	147 TF 2200

DRAWN P.P.C.	CHKD.	USED ON TF 2200	COMPONENT LIST XD 37331
DATE 11.10.61.	APPD	SHT. 1 OF 4 SHTS	
TRACED DKY	MARCONI INSTRUMENTS LTD.		

ISSUE No 3

C/R REF	DESCRIPTION	GRID	STOCK LIST REF	C/R REF	DESCRIPTION	GRID	STOCK LIST REF
R153							
R154							
R155							
R156							
R157							
R158							
R159							
R160	1·5KΩ ± 10% ½W	K5 SH.1	108 TF 2200				
R161	470KΩ ± 10% ½W	K5 SH.1	121 TF 2200				
R162	56Ω ± 10% ½W	K5 SH.1	105 TF 2200				
R163	1·2MΩ ± 10% ½W	K4 SH.1	127 TF 2200				
R164	220KΩ ± 10% ½W	K4 SH.1	119 TF 2200				
R165	470KΩ ± 10% ½W	L5 SH.1	121 TF 2200				
R166	47Ω ± 10% ½W	L4 SH.1	103 TF 2200				
R167	47Ω ± 10% ½W	L4 SH.1	103 TF 2200		RESISTORS VARIABLE		
R168	12KΩ ± 10% ½W	L5 SH.1	172 TF 2200	RV100			
				RV101	5KΩ ± 10% 1W	D4 SH.1	184 TF 2200
				RV102	250Ω ± 20% ½W	D4 SH.1	187 TF 2200
				RV103	50KΩ ± 10% 2W	D1 SH.1	182 TF 2200
				RV104	2·5KΩ ± 20% 1W	D1 SH.1	176 TF 2200
				RV105	25KΩ ± 20% 1W	D1 SH.1	180 TF 2200
				RV106	50KΩ ± 20% ½W	L7 SH.1	189 TF 2200

DRAWN W.P.F.	CHKD.	USED ON TF 2200	COMPONENT LIST XD 37331
DATE 11.10.61.	APPD.	SHT 2 OF 4 SHTS	
TRACED. DKV	MARCONI INSTRUMENTS LTD.		

ISSUE Nº 5

CIR REF	DESCRIPTION	GRID	STOCK LIST REF
	CAPACITORS.		
C100			
C101			
C102	·01μF +80% -20% 350V	E2 SH.1	195 TF2200
C103	·01μF ± 20% 400V	E4 SH.1	194 TF 2200
C104	25μF +100% -20% 12V	F3 SH.1	198 TF 2200
C105	25μF +100% -20% 12V	F5 SH.1	198 TF 2200
C106			
C107	·01μF ± 20% 400V	G2 SH.1	194 TF 2200
C108	·01μF ± 20% 400V	H2 SH.1	194 TF 2200
C109	·01μF +80% -20% 350V	J2 SH.1	195 TF 2200
C110	·01μF +80% -20% 350V	J3 SH.1	195 TF 2200
C111	4·7PF ± ½PF 750 VDC	C2 SH.2	15 TM 6907
C112	2·2PF ± ½PF 750VDC	C2 SH.2	16 TM 6907
	DELAY LINE TRIMMERS.		
	·7-3PF (14 OFF)	SHT 2	19 TM 6907
	·7-3PF (31 OFF)	SHT. 2	12 TM 6906
	·7-3PF (25 OFF)	SHT. 2	7 TM 7248
	·7-3PF (18 OFF)	SHT. 2	23 TM 7247

CIR REF	DESCRIPTION	GRID	STOCK LIST REF
C170	·01μF ± 20% 400V	K4 SH.1	60 SM 6713
C171	100PF ± 2% 750 VDC	K2 SH.1	197 TF 2200
C172	·01μF +80% -20% 350V	L2 SH.1	195 TF 2200
C173	10PF ± ½PF 750 VDC	L4 SH.1	211 TF 2200
C174	5-30 PF TRIMMER	L2 SH.1	205 TF 2200
C175			
C176	·01μF +80% -20% 350V	M3 SH.1	195 TF 2200
C177	·01μF +80% -20% 350V	M5 SH.1	195 TF 2200
C178	·01μF +80% -20% 350V	M6 SH.1	195 TF 2200
C179	·01μF +80% -20% 350V	M5 SH.1	195 TF 2200
C180	·01μF +80% -20% 350V	J5 SH.1	195 TF 2200
C181	·01μF ± 20% 400V	K5 SH.1	194 TF 2200
C182	·01μF ± 20% 400V	L6 SH.1	194 TF 2200

DRAWN W.B.E.	CHKD	USED ON TF 2200	COMPONENT LIST XD 37331
DATE 11.10.61	APPD	SHT. 3 OF 4 SHTS	
TRACED PKY	MARCONI INSTRUMENTS LTD.		

ISSUE Nº

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	INDUCTORS.				VALVES.		
L100				V101 A	ECF 804	D2 SH.1	306 TF 2200
L101		D2 SH.1	217 TF 2200	V101 B		D3 SH.1	306 TF 2200
L102		D3 SH.1	217 TF 2200	V102 A	ECF 804	D4 SH.1	306 TF 2200
L103		E3 SH.1	218 TF 2200	V102 B		D5 SH.1	306 TF 2200
L104		E4 SH.1	218 TF 2200	V103 A	ECC 88	J1 SH.1	306 TF 2200
L105		F2 SH.1	218 TF 2200	V103 B		J2 SH.1	306 TF 2200
L106		F4 SH.1	218 TF 2200	V104	E55L	J2 SH.1	306 TF 2200
L107		E2 SH.1	218 TF 2200	V105	E55L	J3 SH.1	306 TF 2200
L108		E5 SH.1	218 TF 2200	V106 A	ECF 804	L1 SH.1	306 TF 2200
L109		G SH.1	216 TF 2200	V106 B		L2 SH.1	306 TF 2200
L110		G1 SH.1	216 TF 2200	V107	ECC 88	L5 SH.1	306 TF 2200
L111		J2 SH.1	215 TF 2200				
L112		J3 SH.1	215 TF 2200				
L113		L2 SH.1	219 TF 2200		SWITCHES.		
				S101	1 SEC. 2 WAY.	E4 SH.1	234 TF 2200
	DELAY LINE C.H.S			S102	D.P.D.T. (PUSH)	D1 SH.1	233 TF 2200
	14 SECTIONS	SH. 2	6 TM 6007	S103	D.P.D.T. (PUSH)	J1 SH.1	233 TF 2200
	31 SECTIONS	SHT. 3	6 TM 6006				
	25 SECTION	SHT. 3	6 TM 7245				
	18 SECTIONS	SHT. 3	7 TM 7247				
					SOCKETS.		
				SK101	4MM	K6	238 TF 2200
L121		H4 SH.1	9 TM 6005	SK102	4MM	K6	239 TF 2200
L122		H4 SH.1	9 TM 6009				
L123		J4 SH.1	8 TM 7012				

DRAWN W.B.E.	CHKD.	USED ON TF 2200	COMPONENT LIST XD 37331
DATE 11.10.61.	APPD.	SHT. 4 OF 4 SHTS	
TRACED.OKY	MARCONI INSTRUMENTS LTD.		

INPUT CF

SYNC. AMP

CF CAL POT

+150V

R247 1.5M

P1.B

V200 56

V201a ECF804

V202a ½ ECF804

R208 1.5k

R210 27k

R212 1.5k

R244 47

+250V

+1.5V

EXT

C202 .01

R207 47

R206 1M

C203 .01

R205 47

L200

R211 8.2k

-150V

MR200 OA85

R209 330k

C204 .01

TOP TRAVEL

S201a

S201b

MAINS SWITCH SEE POWER SUPPLY

DC A.C TV AUTO Ext (B) HF GRD

TRIGGER MODE

TITLE	TRIGGER CIRCUIT						
DRAWN	DATE	CHKD	APPD	TRCD	ASSEMBLY	STOCK LIST	DRAWING NUMBER
					T23672	T16869	XD37332
MARCONI INSTRUMENTS LTD.							SHEET 1 OF SHEETS

INTERSTAGE C.F.

SCHMITT / COUNT DOWN

OUTPUT PULSE DRIVER & FIELD SYNC. SEP

+250V

R226 3.9k

+180V

R229 100

C211 .01

R222 1.8k

R225 56

+180V +150V

V204a ½ ECC88

V203 ECC88

C208 .01

C210 220p

R231 6.8k

V204b ½ ECC88

R227 100

R228 3.3M

R232 1.8k

R230 1M

C209 .01

R233 100

R234 10k

R223 10k

R220 10k

R219 10k

C207 .02 250p

S201a

S201b

S201c

S201d

S201e

C222 220p

R240 3.3k

R241 3.3k

S202 INT EXT

POLARITY

+250V

R217 100

V202a ½ ECF80

R216 330k

R218 10k

R221 47

C206 .04

TP2

+93V

+180V

C215 .01

R238 1k

R235 180

R236 1M

R237 39k

C213 .02

C214 47p

C217 10p

C218 220p

C219 220p

V205 ECC88

V206 ECC88

TP3

TP4

+180V +150V

7mA MAX

PIN 60 ON XD37336 (X AMP)

R240 100K.

C216 .01

R241 180

C220 .01

C221 .01

R251 1k

PIN 11

X200 X201

PIN 32

X202 X203

PIN 31

+250V

+100V

+150V

Had 50 μs

PIN 10 ON XD37333

X } TO SW 401C PINS 3 & 14 ON XD37334

Y

EXT (X)

S201 (REV)

S201f

LT2

LT1

V201 V202 V203 V204

C225 .01

V205

PLP201

XD 37332

ISSUE NO. 6

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
R200	56Ω ± 10% ½W	D2	5 TM 6352
R201	100Ω ± 10% ½W	D1	7 TM 6352
R202	27KΩ ± 5% 2W	D3	25 TM 6352
R203			
R204	1·5KΩ ± 10% ½W	E2	10TM 6352
R205	47Ω ± 10% ½W	E3	6 TM 6352
R206	1MΩ ± 10% ½W	E4	14 TM 6352
R207	47Ω ± 10% ½W	E2	6 TM 6352
R208	1·5KΩ ± 10% ½W	F2	10 TM 6352
R209	330KΩ ± 10% ½W	F4	9 TM 6352
R210	27KΩ ± 5% 1W	F2	24 TM 6352
R211	8·2KΩ ± 5% 6W	F3	30 TM 6352
R212	1·5KΩ ± 10% ½W	F2	10 TM 6352
R213	47Ω ± 10% ½W	G2	8 TM 5752
R214	4·7MΩ ± 10% ½W	G4	11 TM 6352
R215	56Ω ± 10% ½W	G2	5 TM 6352
R216	330KΩ ± 10% ½W	G3	9 TM 6352
R217	100Ω ± 10% ½W	G1	7 TM 6352
R218	10KΩ ± 5% 1W	G2	26 TM 6352
R219	10KΩ ± 10% ½W	H2	12 TM 6352
R220	10KΩ ± 10% ½W	H3	12 TM 6352
R221	47Ω ± 10% ½W	H2	6 TM 6352
R222	1·0KΩ ± 10% 2W	H1	22 TM 6352
R223	10KΩ ± 2% 1W	H2	6 TM 6352
R224	100Ω ± 10% ½W	H3	7 TM 6352
R225	56Ω ± 10% ½W	J2	5 TM 6352
R226	1·2KΩ ± 5% 2W	J1	17 TM 6352

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
R227	100Ω ± 10% ½W	J4	7 TM 6352
R228	3·3KΩ ± 10% ½W	J4	32 TM 6352
R229	100Ω ± 10% ½W	J2	7 TM 6352
R230	1MΩ ± 10% ½W	J2	14 TM 6352
R231	6·0KΩ ± 5% 1W	J2	20 TM 6352
R232	5·0KΩ ± 5% 2W	J1	30 TM 6352
R233	100Ω ± 10% ½W	J3	7 TM 6352
R234	10KΩ ± 5% 1W	K3	26 TM 6352
R235	1KΩ ± 10% ½W	K2	16 TM 6352
R236	4·7KΩ ± 10% ½W	K3	12 TM 6352
R237	2·2KΩ ± 10% ½W	K3	22 TM 6352
R238	1KΩ ± 10% ½W	L1	16 TM 6352
R239	180Ω ± 10% ½W	L2	18 TM 6352
R240	100KΩ ± 10% ½W	L1	17 TM 6352
R241	120Ω ± 10% ½W	L2	21 TM 6352
R242	1·5MΩ ± 10% ½W	L3	20 TM 6352
R243	100KΩ ± 10% ½W	L2	19 TM 6352
R244	47Ω ± 10% ½W	F1	16 TM 6352
R245	47Ω ± 10% ½W	F2	16 TM 6352
R246	2·7KΩ ± 5% 1W	G5	14 TM 6352
R247	1·0KΩ ± 5% 1W	G3	14 TM 6352
R248	680KΩ ± 1% ½W	B2	23 TM 6352
R249	1·5MΩ ± 1% ½W	B3	24 TM 6352
R250	2·2KΩ ± 10% ½W	B2	21 TM 6352
R251	1KΩ ± 10% ½W	M2	22 TM 6352

DRAWN W.P.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37332
DATE 17:10:61.	APPD.	SHT. 1 OF 3 SHTS.	
TRACED P.W.	MARCONI INSTRUMENTS LTD.		

ISSUE NO 7

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
HV200	1M 20% ½W 4 ANGEL WITH 10K 2% 2W WW	G2 G5	15 TM 6869	C223	32μF + 100% 20% 150V	B2	25 TM 6869
				C224	4μF + 50% 20% 350V	B2	26 TM 6869
				C225	0·01μF +80% -20% 350V	J6	41 TM 6352
C200	0·47μF ± 10% 125V	D5	43 TM 6352				
C201				L200	30 L	E3	35 TM 6352
C202	0·01μF + 80% - 20% 350VDC	E2	41 TM 6352				
C203	0·01μF + 80% - 20% 350VDC	F3	41 TM 6352				
C204	0·01μF + 80% - 20% 350VDC	F4	41 TM 6352				
C205	0·01μF + 80% - 20% 350VDC	G1	18. TM 6869.				
C206	0·04μF ± 20% 250VDC	H2	44 TM 6350				
C207	680pF ± 20% 400V		13 TM 6867				
C208	0·01μF + 80% - 20% 350VDC	J2	41 TM 6352				
C209	0·01μF + 80% - 20% 350VDC	J3	41 TM 6352				
C210	220pF ± 20% 600VDC	J2	42 TM 6352		DIODES.		
C211	0·01μF + 80% - 20% 350VDC	J1	41 TM 6352	MR200	OA 85	E4	29 TM 6869
C212	0·04μF ± 20% 250VDC	J1	44 TM 6350				
C213	5-12pF 350VDC TRIMMER	K2	46 TM 6352				
C214	4·7pF ± 0·5pF 750VDC	K2	45 TM 6352				
C215	0·01μF + 80% - 20% 350VDC	K1	41 TM 6352				
C216	0·01μF + 80% - 20% 350VDC	L1	41 TM 6352				
C217	100pF ± 2% 750VDC	L2	39 TM 6352				
C218	220pF ± 20% 600VDC	L2	42 TM 6352				
C219	220pF ± 20% 600VDC	M2	42 TM 6352				
C220	0·01μF + 80% - 20% 350VDC	M1	41 TM 6352				
C221	0·01μF + 80% - 20% 350VDC	M1	41 TM 6352				
C222	220p ± 20% 600V	H5	42 TM 6352				

DRAWN W.F.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37332
DATE 15:10:61.	APPD.	SHT. 4 OF 7 SHTS.	
TRACED A.W.	MARCONI INSTRUMENTS LTD.		

00-000/M59

ISSUE NO

CIR REF.	DESCRIPTION	GRID	STOCK LIST REF.
	VALVES		
V201A	ECF 804	F2	51 TM 6352
V201B		D2	51 TM 6352
V202A	ECF 804	F2	51 TM 6352
V202B		G2	51 TM 6352
V203	ECC 81	H2	52 TM 6352
V204A	ECC 85	J2	52 TM 6352
V204B		K2	52 TM 6352
V205	ECC 88	L2	52 TM 6352
	SWITCHES		
S201A		H4	
S201B		I4	
S201C	3 SEC. 6 POS.	J4	11 TM 6869
S201D		L4	
S201E		H5	
S201F		D4	
S202	3 POS. (LEVER)	E2	12 TM6869
S203	DPCO (PUSH)	G1	12 TM6869

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	LAMPS		
PL201	6.3V 0.15A	L4	1 TM 6865
	SOCKETS		
SK200	CO-AXIAL	D6	42 TM 6865
SK201	4MM	L4	44 TM 6865
SK202	6-PIN	A2	43 TM 6865
	MISCELLANEOUS		
L200 TO X203	FERRITE BEAD MULLARD FX1065/28		2 TM 6865

DRAWN W.B.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST
DATE 17:10:61	APPD.	SHT. 1 OF 1 SHTS	XD 37332
TRACED		MARCONI INSTRUMENTS LTD.	

MULTIVIBRATOR

RECYCLING C.F

CLAMP DIODE

PLC

+350V — 24 — 12 — BEAM LOCATE PIN 4 ON S306

+250V — 23 — 11

+100V — 22 — 10 — FROM V8TA PIN 3 ON XD37335

FROM RV603 +85V ON XD37336 — 21 — 9

EARTH — 20 — A

-6·3V — 19 — 7

-150V — 18 — 6

17 — 5

LT1 — 16 — 4

LT2 — 15 — 3

LT1 (E) — 14 — 2

LT1 (L) — 13 — 1

FOR COMPONENTS MARKED * SEE S301 ON SHT. 2.

S401

R309 8·2k

R320 47k

+30V

R319 8·2k

V303 EB91

R306 15k

R314 1k

-12V -1V

R315 1·5k

C305 47p

R322 100k

R323 47

C310 ·01

V302a ½ECF804

V301a ½ECF804

V301b ½ECF804

C304 22p

R307

R310 15k

R317 1M

R321 33k

-150V

R311 12k

MR300 OA202

-2·5V

V302b ½ECF804

C306 TO * C309

R312 470k

R316 47k

R318 1M

-72V Max Pos

PIN 12 PLC

MR301 OA202

-75V -95V

R324 1·5k

C311 10P

S302

R330 47k

R331 3·3k

R332 47k

R333 47k

R334 47k

R335 47k

R336 47k

R337 47k

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R999 47k

R1000 47k

SYNC. IN FROM S201d TAG 22 ON XD37332

PIN 15 ON XD37335

'BEAM LOCATE' ON XD37335 SHT.1 (MAIN TIME BASE)

a, b — S201f ON XD37332

WAFER NOTATION OF S401

b d f h k

a c e g j

FUNCTION NOTE:- WAVEFORMS SHOWN WITH S401 IN DELAY POSITION

TITLE: DELAYING TIME BASE

DRAWN	DATE	CHKD	APPD.	TRCD	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W.B.E. WARDS	23·10·61						XD37333

MARCONI INSTRUMENTS LTD. — SHEET 1 OF 2 SHEETS

CLAMP C.F

MILLER

DELAY PICK-OFF

R330 1K

R332 100k

R328 47

TP3

V304 ECF 804

+1.49V +45V

TP2

R340 10K

R341 33K

R342 10K

R338 47k

C319 33P

C312 TO C317 *

R339 1.8k

C320 100p

R344 3.9K

R345 68K

+250V +220V

R347 560K

C321 4.7p

V305 ECF804

+132V +44V +39V

RV309 2.5k

R331 22

R333 R334 *

C318 10P

R336 10K

V306b ½ECF804

R329 56

+66V -2V

V306a ½ECF804

+100V

(DELAY TIME MULTIPLIER)

R343 47

R346 10k

R348 2.2M

R349 560K

RV310 50k

+250V +170V

R351 270K

TP1

R326 12k

RV302 TO * * RV307

R337 24k

RV300 2.2K (LENGTH)

-77V -100V

RV301 200k (VELOCITY)

R335 39k

R327 5.6k

+118V +82V 30V

X32

+100V

RV308 1M

X30D

X30I

X30B

X30C

PIN 19 TO XD37336

PIN 10 ON XD37334

GATED

(B)+(A) (A) (A) (B)+(A) (A) (A)

S431

MULTI TRIG.

EXT

PIN 19 PLC

V303

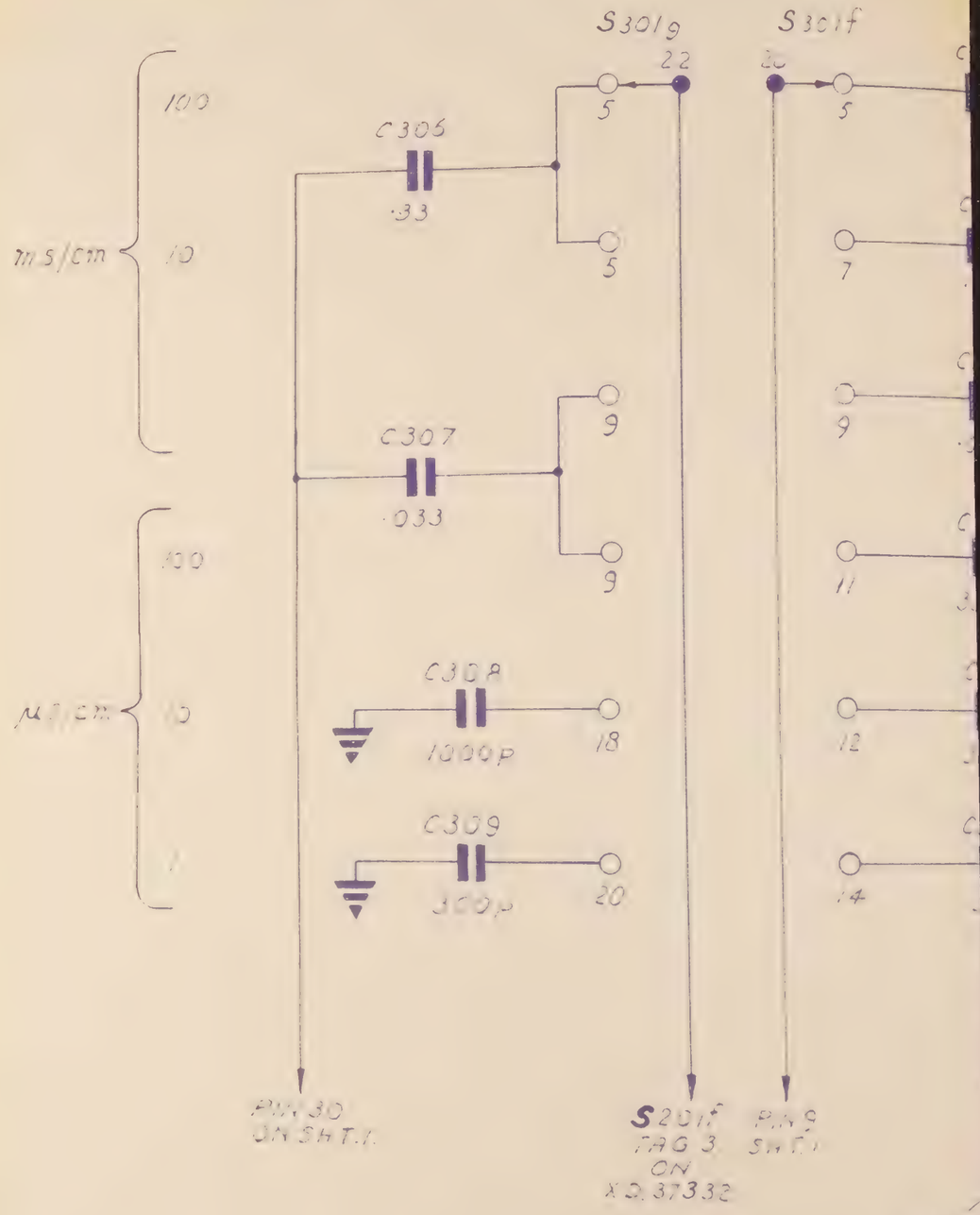
LT1

LT2

XD 37333

G H J K L M

WAITING TIME C'S



TITLE DELAYING TIME BASE (RANGE SWITCH)

DRAWN	DATE	CHKD.	APPD.	TRC'D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W.B EDWARDS	24·8·6	T WRS	D R W	H F	TD 36904	TM6870	XD 37333

MARCONI INSTRUMENTS LTD. SHEET 2 OF 2 SHEETS

MILLER R's

RANGE POTS

PRINTED CIRCUIT
TM 6685

S301c

S301d

S301b

S301a

R333
.3M

RV302
68k

RV303
68k

RV304
68k

RV305
68K

RV306
68k

RV307
68k

R334
400k

312
5
20
21
2
20
1
3
313
7
2
01
314
9
10
33
315
11
10
300p
316
12
10
30p
317
14
10
3p
5
6
3
7
9
11

PIN 18
SHT. 1.

100
10
1
ms/cm

100
10
1
µs/cm

PIN 8
SHT. 1

PIN 3
SHT. 1.

RV301
SHT. 1.

PIN 17
SHT. 1

X1 ---- X2

1 100 µ SEC

S301

ME OR TIME/CM

a b c d e f g h j k

WAFER NOTATION FOR S301

XD 37333

ISSUE NO. 4

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
R300	470 Ω ± 10% ¼W	B4 SHT. 1	39 TM 6385	R327	5·6[illegible] ± 5% 1W	C5 SHT1	24 TM 6385
R301	3·3[illegible]Ω ± 10% ¼W	C4 SHT 1	40 TM 6385	R328	47Ω ± 10% ¼W	G2 SHT1	41 TM 6385
R302	47Ω ± 10% ¼W	C3 SHT1	41 TM 6385	R329	56Ω ± 10% ¼W	F3 SHT1	7 TM 6385
R303	4·7[illegible]Ω ± 10% ½W	C2 SHT1	5 TM 6385	R330	1[illegible]Ω ± 10% ½W	F1 SHT1	13 TM 6385
R304	4·7KΩ ± 5% 2W	C5 SHT1	6 TM 6385	R331	22Ω ± 10% ¼W	H3 SHT1	25 TM 6385
R305	56Ω ± 10% ¼W	D3 SHT1	7 TM 6385	R332	100KΩ ± 5% 1W	H1 SHT1	26 TM 6385
R306	220Ω ± 10% ¼W	D2 SHT1	42 TM 6385	R333	13MΩ ± 2% ½W	H4 SHT2	25 TM 6870
R307	12KΩ ± 5% 1W	D3 SHT1	8 TM 6385	R334	400KΩ ± 2% ½W	F2 SHT2	27 TM 6870
R308	12KΩ ± 5% 1W	D5 SHT1	8 TM 6385	R335	39KΩ ± 5% 1W	H5 SHT1	38 TM 6385
R309	8·2K[illegible] ± 5% 1W	D1 SHT1	10 TM 6385	R336	10[illegible]Ω ± 5% 1W	G3 SHT1	27 TM 6385
R310	15[illegible]Ω ± 10% ¼W	D4 SHT1	11 TM 6385	R337	2·4[illegible]Ω ± 5% 2W	G4 SHT1	28 TM 6385
R311	12KΩ ± 5% ¼W	D4 SHT1	9 TM 6385	R338	4·7KΩ ± 10% ½W	J2 SHT1	31 TM 6385
R312	47[illegible]Ω ± 5% ¼W	D5 SHT1	12 TM 6385	R339	1[illegible]Ω ± 5% ¼W	J3 SHT1	29 TM 6385
R313	15KΩ ± 10% ¼W	E2 SHT1	11 TM 6385	R340	10[illegible]Ω ± 5% ¼W	J2 SHT1	30 TM 6385
R314	15Ω ± 10% ¼W	E2 SHT1	13 TM 6385	R341	33KΩ ± 10% ¼W	K2 SHT 1	32 TM 6385
R315	1·5KΩ ± 10% ½W	E3 SHT1	14 TM 6385	R342	10KΩ ± 10% ¼W	K2 SHT1	33 TM 6385
R316	47[illegible] ± 10% W	E5 SHT1	15 TM 6385	R343	47Ω ± 10% ¼W	K4 SHT1	41 TM 6385
R317	1MΩ ± 5% ¼W	E4 SHT1	17 TM 6385	R344	3·9[illegible]Ω ± 1% ½W	F1 SHT1	43 TM 6385
R318	1[illegible]Ω ± 5% ¼W	E5 SHT1	17 TM 6385	R345	6·3[illegible]Ω ± 1% ½W	K1 SHT1	44 TM 6385
R319	8·2[illegible]Ω ± 1% ¼W	E2 SHT1	21 TM 6385	R346	10KΩ ± 5% 2W	K4 SHT1	45 TM 6385
R320	47KΩ ± 5% ¼W	F1 SHT1	19 TM 6385	R347	56[illegible]Ω ± 5% ¼W	L2 SHT 1	36 TM 6385
R321	3[illegible]Ω ± 1% ½W	L4 SHT1	1[illegible] TM 6385	R348	1·2[illegible]Ω ± 5% ½W	L4 SHT1	37 TM 6385
R322	1[illegible]KΩ ± 5% ¼W	F3 SHT1	22 TM 6385	R349	56[illegible]Ω ± 5% ¼W	L4 SHT1	36 TM 6385
R323	47Ω ± 10% ¼W	F3 SHT1	41 TM 6385	R350			
R324	15[illegible]Ω ± 5% 1W	F3 SHT1	20 TM 6385	R351	270KΩ ± 5% ¼W	D4 SHT1	44 TM 6385
R325	56Ω ± 10% ¼W	J5 SHT 1	7 TM 6385				
R326	1[illegible]Ω ± 5% 2W	G4 SHT1	23 TM 6385				

DRAWN WEE.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37333
DATE 23.10.61.	APPD.	SHT. 1 OF 4 SHTS.	
TRACED PMY	MARCONI INSTRUMENTS LTD.		

MA
INST.

ISSUE NO 2

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
				RV309	25kΩ ± 20% 1W	M3 SHT1	16 TM 6870
				RV310	50kΩ ± 3% 5W	M4 SHT1	14 TM 6870
					CAPACITORS.		
				C300			
				C301	47PF ± 2% 750V DC	B4 SHT1	45 TM 6385
				C302	·01μF +80% -20% 350V DC	B2 SHT1	47 TM 6385
				C303			
				C304	22PF ± 5% 750V DC	D3 SHT1	45 TM 6385
	VARIABLE RESISTOR			C305	47PF ± 2% 750V DC	E3 SHT1	46 TM 6385
RV300	2·2kΩ ± 20% ¼W	C5 SHT1	45 TM 6385	C306	0·33μF ± 10% 125V	E5 SHT2	33 TM 6870
RV301	200kΩ ± 10% ½W	H5 SHT1	15 TM 6870	C307	0·033μF ± 10% 125V	E4 SHT2	34 TM 6870
RV302	68kΩ ± 20% ¼W	K5 SHT2	9 TM 6685	C308	1000PF ± 20% 400V.	E3 SHT2	35 TM 6870
RV303	68kΩ ± 20% ¼W	K4 SHT2	9 TM 6685	C309	330PF ± 1% 350V	E2 SHT2	36 TM 6870
RV304	68kΩ ± 20% ¼W	K4 SHT2	9 TM 6685	C310	·1μF +80% -20% 350V DC	G4 SHT1	47 TM 6385
RV305	68kΩ ± 20% ¼W	K3 SHT2	9 TM 6685	C311	1000PF ± ½PF 750V DC	G4 SHT1	49 TM 6385
RV306	68kΩ ± 20% ¼W	F5 SHT2	9 TM 6685	C312	·1μF ± 5% 400V	F5 SHT2	32 TM 6870
RV307	68kΩ ± 20% ¼W	K2 SHT2	9 TM 6685	C313	·01μF ± 5% 400V.	G4 SHT2	31 TM 6870
RV308	1MΩ ± 20% 1W	L5 SHT1	17 TM 6870	C314	·033μF ± 5% 400V	J4 SHT2	37 TM 6870

DRAWN W.B.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD 37333
DATE 23.10.61.	APPD.	SHT 2 OF 4 SHTS.	
TRACED PLY	MARCONI INSTRUMENTS LTD.		

ISSUE NO.

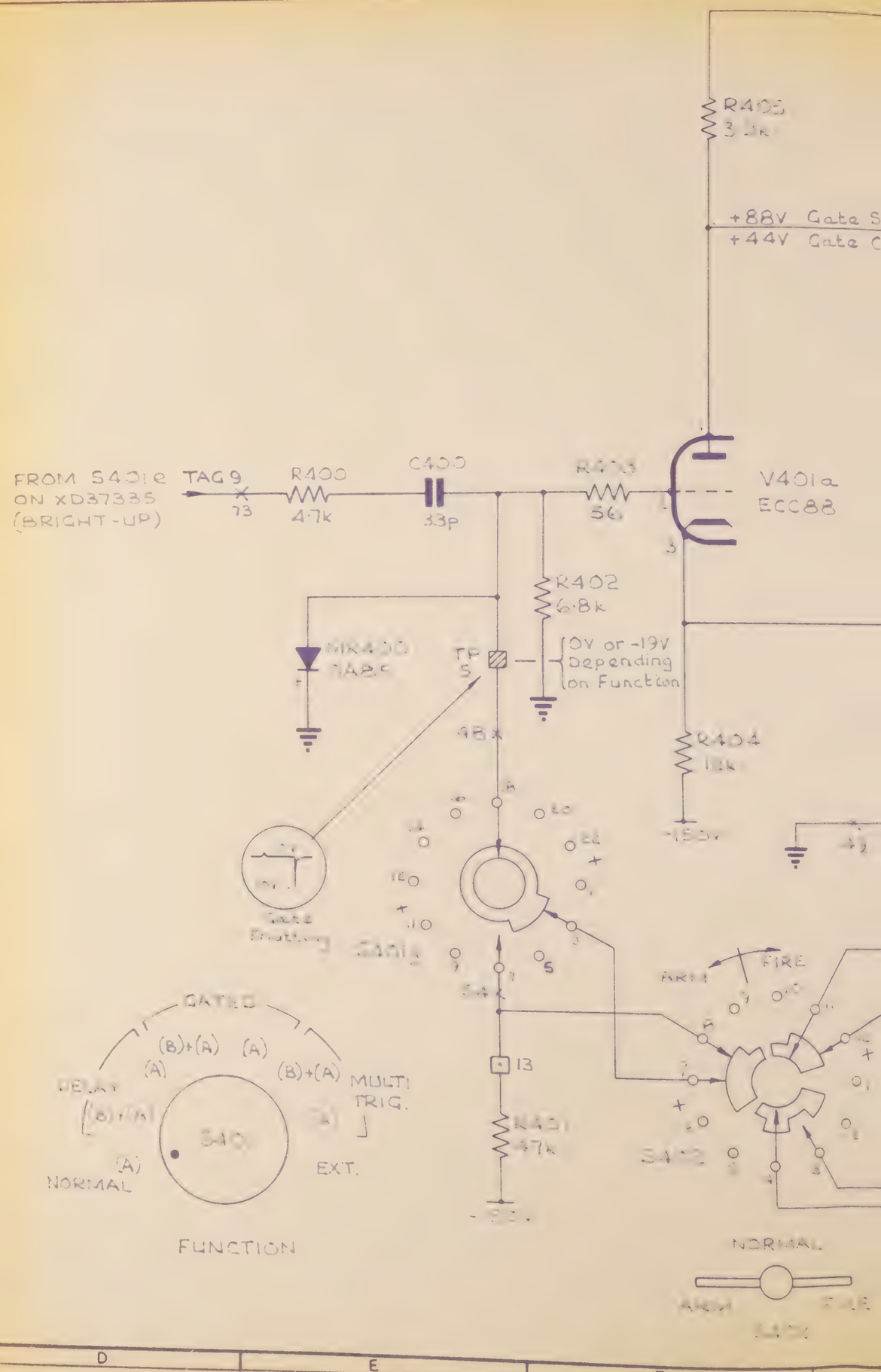
CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
C315	3300PF ± 5% 350V.	G3 SHT2	34 TM 6870		VALVES.		
C316	330PF ± 2% 350V	G3 SHT2	30 TM 6870	V301a	ECF 804	C3 SHT1	59 TM 6385
C317	33PF ± 2% 350V	G2 SHT2	29 TM 6870	V301b		D3 SHT1	59 TM 6385
C318	10PF ± ½PF 750V DC	J3 SHT1	49 TM 6385	V302a	ECF 804	E3 SHT1	59 TM 6305
C319	15PF ± 5% 750V DC	J2 SHT1	50 TM 6385	V302b		F5 SHT1	59 TM 6385
C320	100PF ± 2% 750V DC	F2 SHT1	51 TM 6385	V303	6AL5	G2 SHT1	60 TM 6385
C321	4·7PF ± ½PF 750V DC	L2 SHT1	52 TM 6385	V304a	ECF 804	H2 SHT1	59 TM 6385
				V304b		J2 SHT1	59 TM 6385
				V305	ECF 804.	K2 SHT1	59 TM 6385
				V306a	ECF 804.	K3 SHT1	59 TM 6385
				V306b		G3 SHT1	59 TM 6385
					SWITCHES		
				S301a	5 SEC. 6 POS.	SHT2	19 TM 6870
				S302	PUSH BUTTON	E5 SHT1	39 TM 6865
				S401a	5 SEC. 8 POS.	C1 SHT1	8 TM 6868

DRAWN W.B.E.	CHKD A.D.M.	USED ON TF2200	COMPONENT LIST XD37333
DATE 23.10.61.	APPD.	SHT.3 OF 4 SHTS.	
TRACED PIY	MARCONI INSTRUMENTS LTD.		

ISSUE NO

CIR REF	DESCRIPTION	GRID	STOCK LIST REF	CIR REF	DESCRIPTION	GRID	STOCK LIST REF
	RECTIFIERS & DIODES.						
MR300	OA202	F4 SHT1	57 TM 6385				
MR301	OA202	F5 SHT1	57 TM 6385				
	MISCELLANEOUS.						
X300	FERRITE BEAD MULLARD FX1065/28	M5 SHT1	55 TM 6385				
X301	FERRITE BEAD MULLARD FX1065/28	M5 SHT1	55 TM 6385				
X302	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X303	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X304	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X305	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X306	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X307	FERRITE BEAD MULLARD FX1065/28	M1 SHT1	51 TM 6865				
X308	FERRITE BEAD MULLARD FX1065/28	M5 SHT1	51 TM 6865				
X309	FERRITE BEAD MULLARD FX1065/28	M5 SHT1	51 TM 6865				

DRAWN W.B.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37333
DATE 23.10.64.	APPD.	SHT. 4 OF 4 SHTS.	
TRACED PRY	MARCONI INSTRUMENTS LTD.		



TITLE: FUNCTION CIRCUIT							
DRAWN	DATE	CHKD.	APPD.	TRC'D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
N B EDWARDS	8.10.61	T WRW	DRW	EHW	TD3673-5	MAGMA	XD37334
MARCONI INSTRUMENTS LTD.							SHEET 1 OF SHEETS

+100V

FROM PIN 31
ON XD37333
(DELAY PICK OFF)

10

FROM S201d PINS 1&3
ON XD37332
(TRIGGER)

S401c

R406
33k

+17V Gate Shut
0V Gate Open

MR401
OA85

R407
3·3k

+10V Gate Shut
-5·5V Gate Open

R408
4·7k

Gate
Opening

9V

C402
33p

V401b
ECC88

R419
47k

Typical of
Gated Mode

+12V Gate Shut
0V Gate Open
(Gated & Multi Trig)
-3·5V Gate Open
(Normal & Delay)

0V Gate Shut
-13V Gate Open

C404
330p

R409
82k

MR402
OA85

-150V

C401
1000p

MR403
OA85

TP3

MR404
OA85

TP2

TO R519
ON XD37335
(MAIN TIME
BASE)

MR405
OA85

+250V

S401a

S401b

C405

R417

C403

R410
12·3k

+150V

-150V

LT1

VA1

ISSUE NO

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	RESISTORS.						
R400	4·7MΩ ± 10% ½W	B3	5 TM 6515				
R401	47KΩ ± 10% ½W	B6	6 TM 6515				
R402	6·8KΩ ± 1% ½W	B3	7 TM 6515				
R403	56Ω ± 10% ½W	F3	8 TM 6515				
R404	12KΩ ± 5% 2W	B4	10 TM 6515				
R405	3·9KΩ ± 5% 1W	F1	9 TM 6515				
R406	33KΩ ± 2% ½W	H2	11 TM 6515				
R407	3·3KΩ ± 5% ½W	H3	12 TM 6515				
R408	4·7KΩ ± 5% ½W	H5	13 TM 6515				
R409	82KΩ ± 2% ½W	H4	14 TM 6515				
R410	120 KΩ ± 10% ½W	H5	19 TM 6515				
R411	47Ω ± 10% ½W	J3	16 TM 6515				
R412	1·0KΩ ± 10% ½W	J3	17 TM 6515				
R413	1·5KΩ ± 10% ½W	J3	18 TM 6515		C.R.O. PRB.		
R414				C400	33PF ± 2% 350V	B3	75 TM 6515
R415	27KΩ ± 10% ½W	K6	27 TM 6865	C401	1000PF ± 2% 350V	J4	76 TM 6515
R416	270KΩ ± 10% ½W	K4	20 TM 6515	C402	33PF ± 5% 350V	J2	77 TM 6515
R417	1500Ω ± 10% ½W	K5	31. TM6865	C403	·01μF -20+50% 350V	L5	35. TM6865
R418	150Ω ± 5% ½W	J5	22 TM 6865	C404	330PF ± 2% 350V	H4	25 TM 6865
R419	4·7KΩ ± 1% ½W	M2	9 TM 6515				
R420							

DRAWN W.F.R.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD 37334
DATE 7.12.61.	APPD.	SHT. 1 OF 2 SHTS.	
TRACED PRY	MARCONI INSTRUMENTS LTD.		

ISSUE NO. 2

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	VALVES.		
V401a	ECC 88	F3	107 TM 6515
V401b	ECC 88	H3	107 TM 6515
	SWITCHES.		
S401c		L2	8 TM 6868
S401g	5 SEC. 6 POS.	E5	8 TM 6868
S401k		G5	8 TM 6868
S402	1 SEC. 5 POS. ROTOR	F5	36 TM 6865
S403	PUSH BUTTON	E5	40 TM 6865
	LAMPS.		
TL/L401	NEON 60V	J4	49 TM 6865

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	RECTIFIERS & DIODES.		
MR400	OA 85	E3	92 TM 6515
MR401	OA 85	G3	92 TM 6515
MR402	OA 85	H4	92 TM 6515
MR403	OA 85	J5	27 TM 6868
MR404	OA 85	L3	92 TM 6515
MR405	OA 85	M4	92 TM 6515

MILLER AND
DIC

MULTIVIBRATOR

5401e

PIN 73
ON XD37334

- 150V

P502
220

R501
100k

R502
47

R503
220

R504
4·1k

R505
470

R506
47

R507
220

R508
1·5k

R509
470

R510
3·3k

R511
47

R512
8·2k

R513
4·7k

R515
47k

R517
220

R520
15k

R521
12k

R522
470k

R523
15k

R524
1k

R525
1·5k

R526
47k

R527
8·2k

R528
1M

R529
1M

R530
33k

R531
TO
R532

R533
27k

R534
47k

R535
10k

R536
47

R537
15k

C501
·01

C502
·01

C503
1500p

C504
·01

C505
22p

C506
47p

C507
TO *
C511

C512
22p

V501a
ECF804

V501b
ECF804

V503a
ECF804

V504a
ECF804

V504b
ECF804

MR500

MR501

TRANSDATO
C511

PIN 35
XD37333 SHT. 1
(DELAY TIME BASE)

B.U.
OUT

FROM MR404
ON XD37334
(FUNCTION)

'BEAM LOCATE'
ON XD37333 SHT. 1
(DELAY TIME BASE)

NOTE:- WAVEFORMS SHOWN WITH
5401 IN DELAY POSITION

GATED
(B)+(A)
(A)
DELAY
(B)+(A)
(A)
(B)+(A)
(A)
MULTI
TRIC
EXT
NORMAL

TITLE	MAIN TIME BASE						
DRAWN	DATE	CHK'D	APP'D	TRC'D	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W.B. EDWARDS	61			E.M.M.	TD36905	TH68B6B	XD37335
MARCONI INSTRUMENTS LTD.							SHEET 1 OF 5 SHEETS

CLAMP C/F | ALTERNATIVE C/F | CLAMP C/F | OUTPUT E/F | RANGE C/F | MILLER

PL501 (RED) — SK501 — C712 ON XD37337 (E.H.T.)

18 25 33 X501 — +350V — X502

R567 56k — C538 .01 — R571 47 — 32 X503 — +250V — X504 — 31 — +100V — X505 X506

R540 47 — R546 22 — R562 1k — R573 12k — C533 .01

V505 EB91 — C517 .01 — R544 56 — R545 1.5k — +66V — -1V — V508a ECC88 — V506b ECC88

+149V +45V — V507 ECF804 — R563 47 — C532 33p — TP6 — R575 100 — V508b ECC88

R565 22 — C518 TD * C530 — C531 10p — R569 10k — +62V -9V

C536 47 — V506a ECL86 — C514 .01 — +105V — R541 82k — C515 500p — C516 100p — R542 12k

R574 220k — R576 15k

R548 TO * R560 — R564 47 — V501b 12AT7 — RV501 TO RV506 * — -34V — X54

RV500 2.2k (LENGTH) — S2 — -77V -100V — R543 5.6k — R547 56k — S — 62 — -100V Nom — -114V — R561 22k — R566 * — R570 24k

S6 — S63 — X57

BICC 3201 — 4

PLC PIN 7 — R577 10k — BICC 3201 — PLC PIN 10 — T.B. OUT — +70V +5V — 5kΩ Max Load

C535 .01 — V501 V502 V503 V504 V506 — LT1

X507 X508 — 30 — -150V

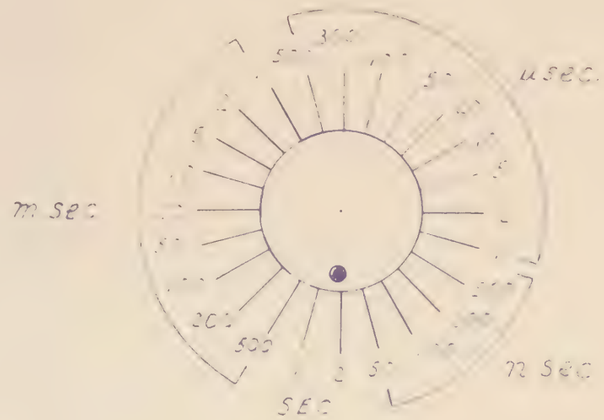
V508 LT2 — V505 — -6.3V

S401k TAG 17 — S401j TAGS 12 & 16 — ON XD37336 (X-AMP.)

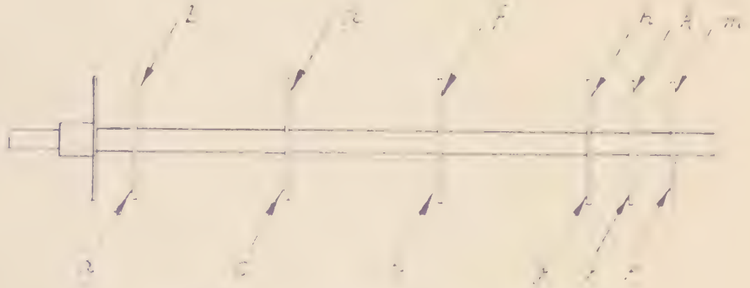
FOR COMPONENTS MARKED * SEE SUB. ON SHT. 2

XD 37335

TIME / CM



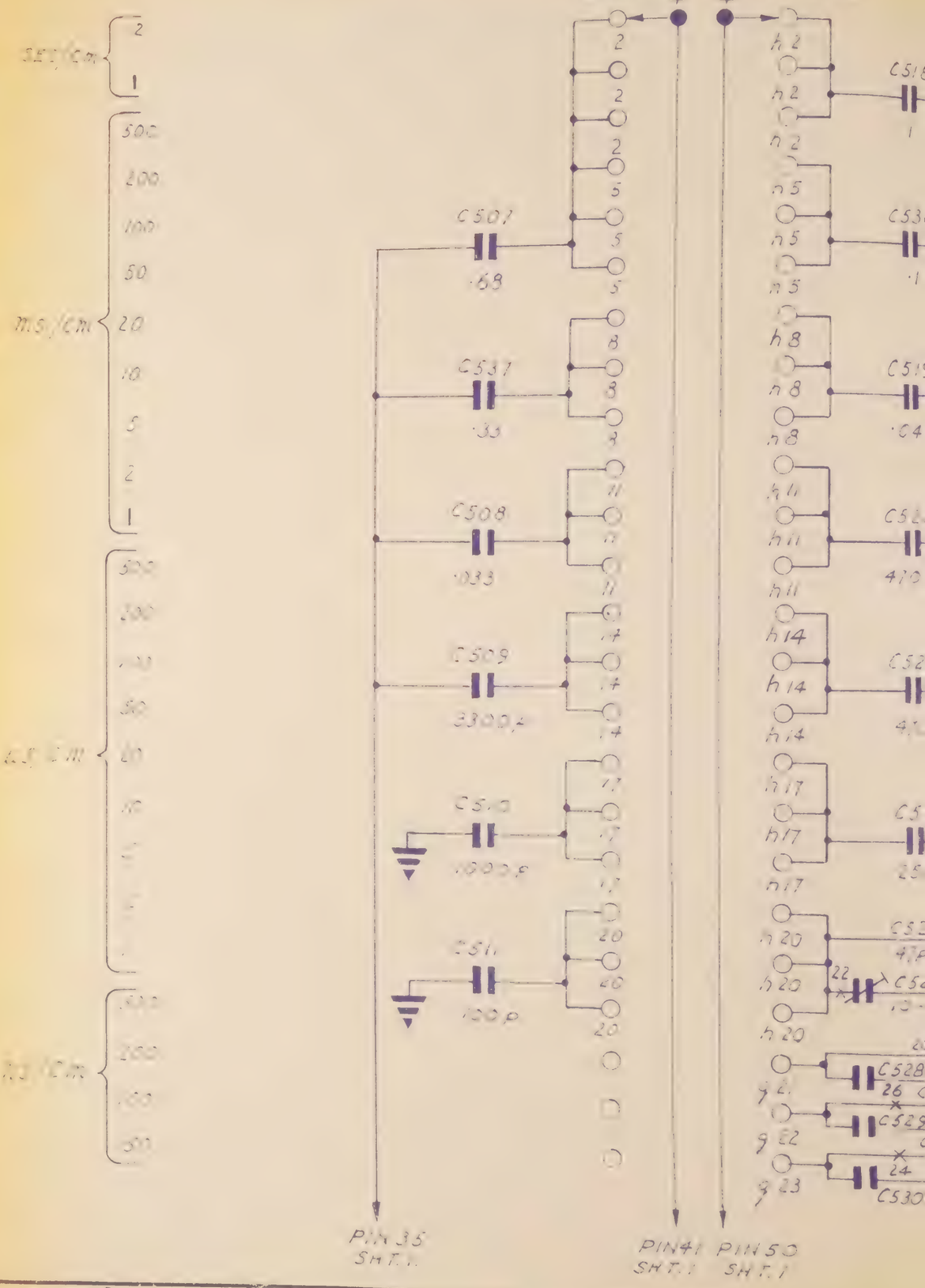
S 501



WAFER NOTATION FOR S501

WAITING TIME CS

MILLER



TITLE							
MAIN TIME BASE (RANGE SWITCH)							
DRAWN	DATE	CHKD.	APPD.	TRC'D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
K. B. EDWARDS	24-10-61	T.W.R.N.	J.R.W.	H.F.	TC 3595	TM 6871	XD37335
MARCONI INSTRUMENTS LTD.							SHEET 2 OF 2 SHEETS

MILLER R's

S501 e&f — 4 — 23 — S501 j&k

e2 e2 e2 e5 e5 e5 e8 e8 e11 e14 e14 e17 e17 e20 e20 e21 e23

j9 j10 j11 j13 j14 j15 j16 j17 j18 j19 j20

13 R548 .5M

18 R549 5M

17 R550 5M

16 R551 4M

15 R552 2M

14 R553 1M

13 R554 300K

12 R555 400K

11 R556 200K

10 R557 400K

9 R558 200K

8 R559 100K

7 R560 47K

k2 k3 k4 k5 k6 k7 k8 k9 k10

2 × 6

PIN 43 SHT. 1.

PIN 57 SHT. 1.

PIN 62 SHT. 1

VARIABLE AIMING POTENTIAL

S501m — 4

2 RV506 100K

5 RV505 100K

8 RV504 100K

11 RV503 100K

14 RV502 100K

17 RV501 100K

20 23 23 23 23 × 28

PIN 61 SHT. 1

-150V

R566 20K

R568 47K

- 150 V.

× 1

PIN 59 SHT. 1.

CLAMP R'S

S501c — 3

PIN 42 SHT. 1

16 18 19 20 21 22

R531 33K — 3

R532 12K — 4

5 ×

PIN 58 SHT. 1.

2 1 — sec/cm

500 200 100 50 20 10 5 2 1 — ms/cm

500 200 100 50 20 10 5 2 1 — μs/cm

500 200 100 50 — nS/cm

XD 37335 | 3

ISSUE NO.

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
R500.	56Ω ± 10% ½W		8 TM 6515				
R501.	100KΩ ± 10% ½W		17 TM 6515				
	220Ω ± 10% ½W		22 TM 6515				
			1 TM 6515				
	47Ω ± 10% ½W		16 TM 6515				
	220Ω ± 10% ½W		22 TM 6515				
		C1	21 6868				
R511.	47Ω ± 10% ½W						
R512.	8·2KΩ ± 10% ½W	C2				H2	
					82KΩ	H2	
R515.	47KΩ ± 5% 1W	C2	26 TM 6515	R542	1.KΩ ± 5% 2W		
	220Ω ± 10% ½W		22 M				
					1·5KΩ ±		18
9					22Ω ±		44
					½W		7
	15 KΩ ± 10% ½W						7
	1KΩ ± 10% ½W						
	1·5KΩ ± 10% ½W		18				
	47KΩ ± 10% ½				½W		

DRAWN	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37335
DATE	APPD	SHT 1 OF 1 SHTS	
TRACED	MARCONI INSTRUMENTS LTD.		

ISSUE NO.

CIR REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
					¼W.		6515
							6672
							6672
						2	6672
							6672
							6672
							6672
		L3 SHT 1	51 TM 6515			C	
		M6 SHT 1	29 TM 6515				
		J6 SHT 1	32 TM 6065				
					10%		
					± 20% 400V		27 TM 6811

DRAWN	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST
DATE	APPD.	SHT OF SHTS.	XD 37335
TRACED	MARCONI INSTRUMENTS LTD.		

ISSUE NO. 6

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
C511	100PF ± 2% 500V	C5 SHT2	25 TM 6871	C530	·01μF ± 20% 400V	L1 SH.1	35 TM 6515
C512	22PF ± 5% 750V	F2 SHT1	80 TM 6515				
C513	·01μF +80% -20% 350V	G4 SHT1	77 TM 6515				
C514	·01μF +80% -20% 350V	H3 SHT1	77 TM 6515				
C515	5000PF ± 2% 500V	H4 SHT1	82 TM 6515				
C516	100PF ± ½PF 500V	H4 SHT1	70 TM 6515				
C517	·01μF +80% -20% 350V	J3 SHT1	77 TM 6515				
C518	1·0μF ± 2% 350V	G1 SHT2	24 TM 6871				
C519	·047μF ± 5% 400V	G2 SHT2	30 TM 6872				
C520	4700PF ± 5% 350V	G2 SHT2	21 TM 6871				
C521	4700PF ± 5% 350V	G4 SHT2	24 TM 6871				
C522	500PF ± 2% 350V	G5 SHT2	22 TM 6871		TRANSISTORS.		
C523	47PF ± 5% 350V	G5 SHT2	22 TM 6871	L501	60μH	G2 SHT1	100 TM 6515
C524	10-40PF TR MMER	G5 SHT2	29 TM 6872				
C525	3-12PF TRIMMER	G5 SHT2	30 TM 6872				
C526	3-12PF TRIMMER	G5 SHT2	30 TM 6872				
C527	3-12PF TRIMMER	G2 SHT2	30 TM 6872				
C528	6·8PF ± 5% 350V	G6 SHT2	23 TM 6871				
C529	6·8PF ± 5% 350V	G6 SHT2	23 TM 6871		VALVES.		
C530	5-60PF ± 2% 350V	G5 SHT2	29 TM 6872	V501A	12AT7	A2 SHT1	108 TM 6515
C531	100PF ± 2% 500V	L2 SHT1	25 TM 6515	V501B		K4 SHT1	108 TM 6515
C532	2·0PF ± 2PF 500V	F2 SHT1	79 TM 6515	V502	ECC 80	F SHT1	107 TM 6515
C533	·01μF +80% -20% 350V	M2 SHT1	77 TM 6515	V503A	ECC 804	L4 SHT1	107 TM 6515
C534				V503B		D3 SHT1	107 TM 6515
C535	·01μF +80% -20% 350V	K5 SHT1	77 TM 6515	V504A	ECF 801	F SHT1	107 TM 6515
C536	·1μF ± 5% 400V	G2 SHT2	30 TM 6871	V504B		G2 SHT1	107 TM 6515
C537	0·53μF ± 10% 125V	J2 SHT2	24 TM 6871	V505	EB91	G2 SHT1	110 TM 6515

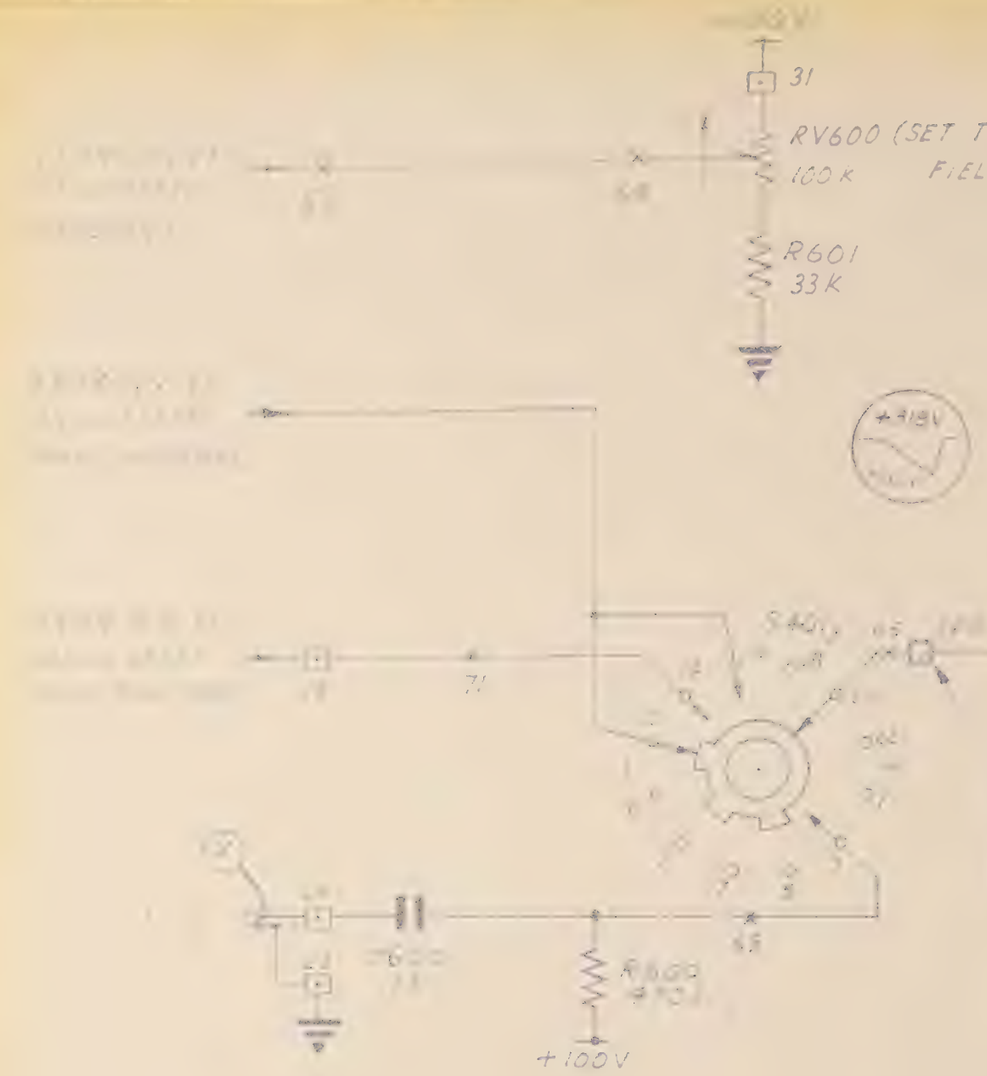
DRAWN W.B.F.	CHKD A.D.M.	USED ON TF 2200	COMPONENT LIST XD37335
DATE 1.11.61.	APPD.	SHT. 3 OF 4 SHTS.	
TRACED PKV	MARCONI INSTRUMENTS LTD.		

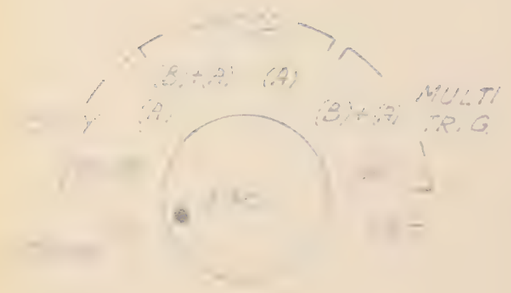
ISSUE NO.

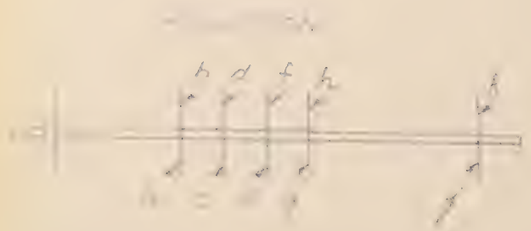
CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
V506A	ECC 88	G2 SHT 1	107 TM 6515				
V506B		J4 SHT 1	107 TM 6515				
V507	ECF 804	L2 SHT 1	109 TM 6515				
V508A	ECC 88	J2 SHT 1	107 TM 6515		[illegible]		
V508B		M2 SHT 1	107 TM 6515	L501	FERRITE BEAD MULLARD FX1065/28	M1 SHT 1	10 TM [illegible]
				L502	FERRITE BEAD MULLARD FX1065/28	J1 SHT 1	10 TM [illegible]
				L503	FERRITE BEAD MULLARD FX1065/28	[illegible]	[illegible]
				L504	FERRITE BEAD MULLARD FX1065/28	M SHT 1	[illegible]
				L505	FERRITE BEAD MULLARD FX1065/28	M1 SHT 1	[illegible]
				L506	FERRITE BEAD MULLARD FX1065/28	M1 SHT 1	[illegible]
				L507	FERRITE BEAD MULLARD FX1065/28	M1 SHT 1	[illegible]
				L508	FERRITE BEAD MULLARD FX1065/28	M1 SHT 1	[illegible]
	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	OA 202	[illegible]	[illegible]				
					[illegible]		
				[illegible]	4MM	J1	45 TM [illegible]
	[illegible]						
[illegible]		[illegible]	[illegible]				
[illegible]	[illegible] 8 PIN.	[illegible]	8 TM 6868				
[illegible]		[illegible]	8 TM 6868				

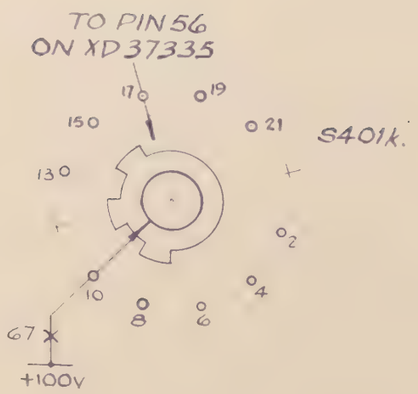
DRAWN A.E.C.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37335
DATE 1.11.61	APPD.	SHT. 4 OF 4 SHTS.	
TRACED DKY	MARCONI INSTRUMENTS LTD.		

20 FEB 1964
MARCO
INST. LTD









TITLE							
DRAWN	DATE	CHKD	APPD.	TRC'D	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W.B.E.D.M.A.E.D.S	25.10.71	T.J.W.K.N.					XD37336
MARCONI INSTRUMENTS LTD.							SHEET 1 OF 1 SHEETS

PL601
X1 PLATE
28 BLK
SK 601
27mA
X2 PLATE
PL602
(RED) 29
SK 602
260V MEAN
V602 EL822
6mA
5mA
C601 8
R610 220
33mA
33mA
(EXPANSION)
(X SENSITIVITY)
RV601. 4·7k
R607 1k
R608 3·3k
R609 3·3k
BEAM LOCATE ON XD 37333 SHT 1.
RV604 (TIME 50K SCALE)
+35V.
+85V.
+77V.
S600
X10
TIME SCALE
X1
CABLE MARKED ⓧ TO BE CO:232 STD. 50.

XD 37336

ISSUE NO.

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
	RESISTORS.				RESISTORS VARIABLE.		
R600	470K ± 10% ¼W	B4	54 TM 6515	RV600	100K ± 20% ½W	B1	70 TM 6515
R601	39K ± 1% ½W	F2	39 TM 6515	RV601	4·7K ± 20% ½W	G4	60 TM 6515
R602	220Ω ± 10% ¼W	G3	22 TM 6515	RV602	2K ± 20% ½W	B4	10 TM 6515
R603	3·3K ± 5% 1W	G2	55 TM 6515	RV603	50K ± 20% ½W	F1	20 TM 6515
R604	3·3K ± 5% 6W	G5	56 TM 6515	RV604	50K ± 10% 3W (12 turns)	E5	33 TM 6515
R605	3·3K ± 5% 1W	G5	57 TM 6515				
R606	470Ω ± 1% ½W	H2	37 TM 6515				
R607	1M ± 1% ½W	B4	31 TM 6515				
R608	3·3K ± 5% 6W	J5	56 TM 6515				
R609	3·3K ± 5% 1W	J2	55 TM 6515		CAPACITORS.		
R610	220Ω ± 10% ¼W	J3	22 TM 6515	C600	0·25μF ± 2% 350V DC	B4	43 TM 6515
R611	1M ± 1% ½W	K2	58 TM 6515	C601	8μF +50% -20% 450V	E5	84 TM 6515
R612	1M ± 1% ½W	B4	29 TM 6865	C602	0·01μF +80% -20% 350V. DC	F3	77 TM 6515
R613	10M ± 1% ½W	B5	29 TM 6865				
R614	1·1M ± 1% ¼W	L5	30 TM 6865				
R615	5·6K ± 5% ½W	L3	23 TM 6868				
					VALVES.		
				V601	EL 822	C3	111 TM 6515
				V602	EL 822	J3	111 TM 6515
					INDUCTORS.		
				L601	C.M.I.	G2	111 TM 6515
				L602	C.M.I.	J2	111 TM 6515

DRAWN W.F.S.	CHKD J.O.M.	USED ON TF 2200	COMPONENT LIST
DATE 25.10.61	APPD.	SHT. 1 OF 2 SHTS.	XD37336
TRACED		MARCONI INSTRUMENTS LTD.	

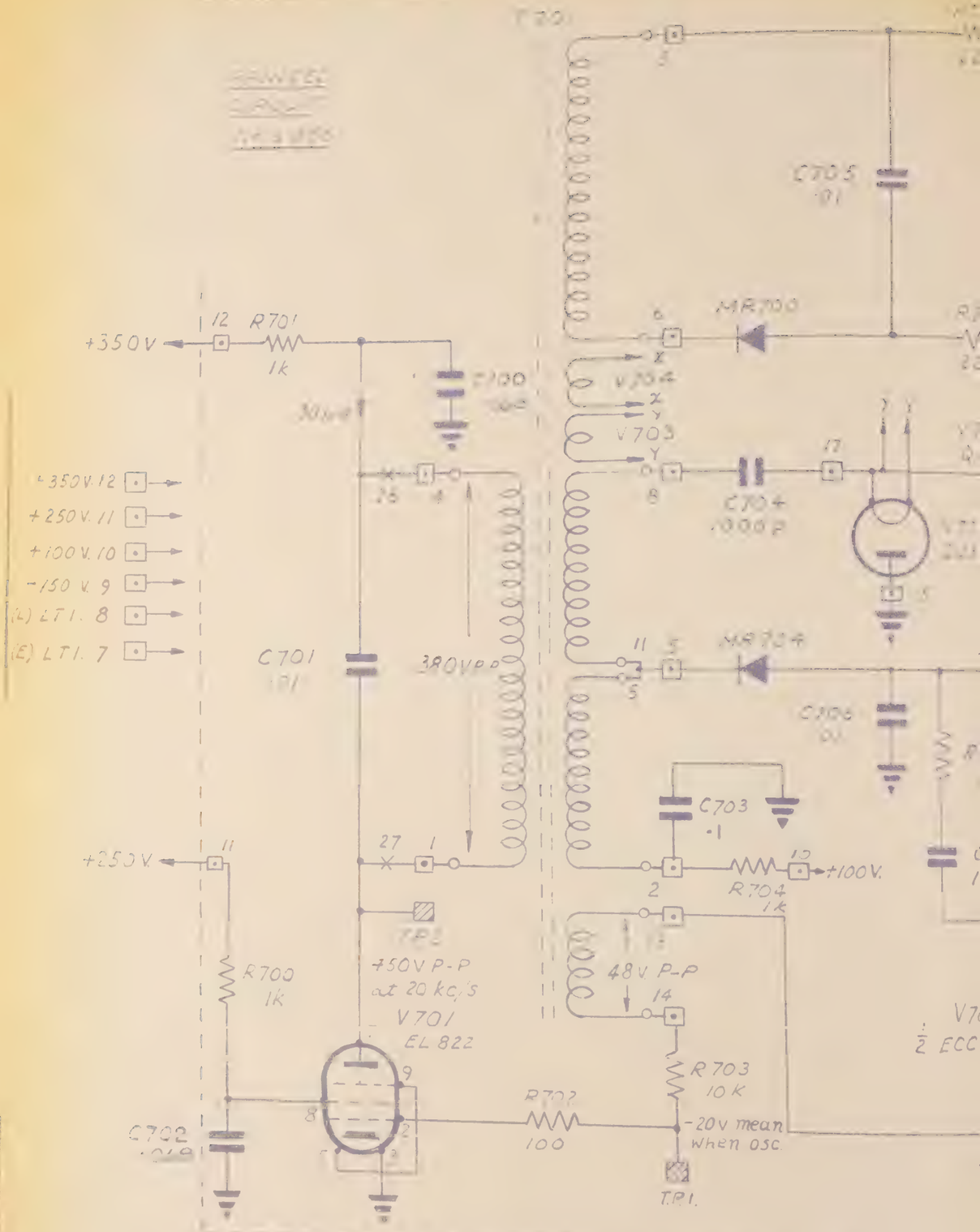
MA
INST.

ISSUE NO.

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	SWITCHES.						
S600	TIME SCALE SWITCH D.P.C.O.	K4.	37 TM 6865				
S401j	5 SEC. 8 POS.	F3	5 TM 6868				
S401k		F5	8 TM 6868.				
	PLUGS.						
PLC	INTERCONNECTING PLUG MULTI-WAY	C	47 TM 6865				
PL 601	4MM (BLACK)	G2	46 TM 6865				
PL602	4MM (RED)	H2	45 TM 6865				
	SOCKETS.						
SK601	4MM (BLACK)	G2	239 TF 2200				
SK602	4MM (RED)	H2	238 TF 2200				

DRAWN W.B.E.	CHKD J.D.M.	USED ON TF 2200	COMPONENT LIST XD37336
DATE 25.10.61.	APPD.	SHT. 2 OF 2 SHTS.	
TRACED PKY	MARCONI INSTRUMENTS LTD.		

100-1000/M59



TITLE	E.H.T. UNIT AND DISPLAY						
DRAWN	DATE	CHKD.	APPD.	TR.C.D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W.B.EDWARDS	10-11-61	T.	D.R.W.			TM.0800 TF 2200	XD37337
MARCONI INSTRUMENTS LTD.							SHEET OF SHEETS

SK 501
ON XD 37335

21
0V.
R719
22 k
R729
220K
R712
4·7M
R713
4·7M
C708
·01
18
-1000V.
RV700
1M
(BRILLIANCE)
-1050 V.
20
-1100V
C712
·01
R730
150k
C715
100p
R714
220K
+9kV.
C710
1000p
23
- 1000 ±5%
R715
2·70K
22
- 950 V.
RV701
1M
(FOCUS)
19
-750 V.
C709
·01
C713
·01.
R718
22 k
C711
·01
+9kV
R722
47K
+350V
MR708
22V
MR709
22V.
+394V
(ASTIG)
RV702
500K
(GEOM)
R725
33K
R728
470K
R727
1K
+350V
+500V (NOM)
(FROM XD37338)
R710
2M
R717
100K
+150V
+350V
Y1 ON XD37336
Y2 ON XD37331
V707
PIN 6
ON XD37331
LTS
ON
XD37338
LT1
LT1

ISSUE No

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
	RESISTORS.		
R700	1KΩ ± 10% ½W	D5	5 TM 6866
R701	1KΩ ± 5% 6W	D2	17 TM 6866
R702	100Ω ± 10% ½W	E6	6 TM 6866
R703	10KΩ ± 10% ½W	F5	7 TM 6866
R704	1KΩ ± 10% ½W	F5	5 TM 6866
R705	22KΩ ± 10% ½W	G1	8 TM 6866
R706	22KΩ ± 10% ½W	G2	8 TM 6866
R707	47KΩ ± 10% ½W	G4	9 TM 6866
R708	47KΩ ± 10% 2W	G6	18 TM 6866
R709	100Ω ± 10% ½W	G5	5 TM 6866
R710	2MΩ ± 1% ¾W	H5	10 TM 6866
R711	4MΩ ± 1% 1W	H4	11 TM 6866
R712	4·7MΩ ± 10% 2W	H1	12 TM 6866
R713	4·7MΩ ± 10% 2W	H2	12 TM 6866
R714	220KΩ ± 10% ½W	H3	13 TM 6866
R715	270KΩ ± 1% ½W	H4	14 TM 6866
R716	5·6KΩ ± 10% ½W	H5	15 TM 6866
R717	100KΩ ± 10% ½W	H6	16 TM 6866
R718	22KΩ ± 10% ½W	K5	168 TF 2200
R719	22KΩ ± 10% ½W	K1	168 TF 2200
R720	1MΩ ± 10% ½W	K2	122 TF 2200
R721	470KΩ ± 10% ½W	L4	121 TF 2200
R722	47KΩ ± 10% ½W	L5	117 TF 2200
R723			
R724	470KΩ ± 10% ½W	M4	121 TF 2200
R725	33KΩ ± 10% 0·1W	L4	173 TF 2200
R726	1MΩ ± 10% ½W	G4	19 TM 6866
R727	1KΩ ± 10% 0·1W	L4	172 TF 2200
R728	470KΩ ± 10% ½W	L4	121 TF 2200
R729	220KΩ ± 10% 0·1W	K1	174 TF 2200
R730	150KΩ ± 10% 0·1W	L2	175 TF 2200
	VARIABLE RESISTORS.		
RV700	1MΩ ± 20% ½W	J2	186 TF 2200
RV701	1MΩ ± 20% ½W	J1	186 TF 2200
RV702	500KΩ ± 20% 1W	M4	191 TF 2200
RV703	1MΩ ± 20% ½W	L5	186 TF 2200

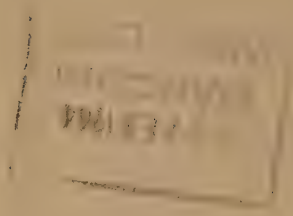
DRAWN W.B.E.	CHKD.	USED ON TF 2200	COMPONENT LIST XD 37337 - - -
DATE 27.11.61	APPD.	SHT. 1 OF 2 SHTS	
TRACED. DKY	MARCONI INSTRUMENTS LTD.		

ISSUE No /

CIR. REF	DESCRIPTION	GRID	STOCK LIST REF
	CAPACITORS.		
C700	·068μF ± 20% 400V	E2	25 TM 6866
C701	·01μF ± 10% 750V	E4	26 TM 6866
C702	·068μF ± 20% 400V	D6	25 TM 6866
C703	·1μF ± 25% 750V	F4	24 TM 6866
C704	10000PF +50% -20% 20KV	F3	27 TM 6866
C705	·01μF +80% -20% 2KV	F2	28 TM 6866
C706	·01μF +80% -20% 2KV	F4	28 TM 6866
C707	10000PF ± 20% 4KV	G4	29 TM 6866
C708	·01μF +80% -20% 2KV	G2	28 TM 6866
C709	·01μF +80% -20% 2KV	G4	28 TM 6866
C710	10000PF +50% -20% 20KV	H3	27 TM 6866
C711	·01μF +80% -20% 2KV	K6	209 TF 2200
C712	·01μF +80% -20% 2KV	L1	209 TF 2200
C713	·01μF +80% -20% 2KV	L5	209 TF 2200
C714	2·2PF + 0·5PF 750V	L4	212 TF 2200
C715	1000PF ± 2% 750V	L2	197 TF 2200
C716	0·01μF +80% -20% 750V	L5	195 TF 2200

CIR. REF	DESCRIPTION	GRID	STOCK LIST REF
	VALVES.		
V701	QL 822	E5	43 TM 6866
V702A, V702B	ECC88	G5, H5	44 TM 6866
V703	QU 37	F3	45 TM 6866
V704	QU 37	G3	45 TM 6866
V705	CRT SE 50 2CC	K	210 TF 2200
	TRANSFORMER.		
T701	E. H.T. (CRT. SUPPLY)	E	1 TM 6866
	RECTIFIERS & DIODES.		
MR700	HSC 4	F2	35 TM 6866
	OR 4 X DD058 (CONNECTED IN SERIES)		
MR704	HSC 4	F4	35 TM 6866
	OR 4 X DD058 (CONNECTED IN SERIES)		
MR708	ZENER 22V ± 15%	M5	213 TF 2200
MR709	ZENER 22V ± 15%	M5	213 TF 2200

DRAWN W.B.E.	CHKD.	USED ON TF 2200	COMPONENT LIST XD37337 - - -
DATE 27.11.61.	APPD	SHT. 2 OF 2 SHTS.	
TRACED. PKY	MARCONI INSTRUMENTS LTD.		



TRANSFORMER DATA

CURRENT	COPPER LOSS	IRON LOSS	EFF. %
·35A	3·5W	10W	93%

FAN MOTOR DATA

V	I	W
200V	0·44A	28

TOTAL INPUT VA AND POWER ON FULL LOAD

V	I	VA	W
220V	3·4A	755	665

SERIES STABILISER

+500 V (NOM) TO XD37337

T801

100V

CB14 ·01

RB00 1k

RB04 3·3k

LT2

RB01 330

RB03 4·3k

LT3

LT5

CRT HTRS (ON XD37337)

HT1 100V RMS

HT2 280V RMS

HT3 205V RMS

HT4 207V RMS

LT6 6·3V RMS

LT1

MRB01 MRB02 MRB03 MRB04

MRB05 MRB06 MRB07 MRB08 MRB09

MRB10 MRB11 MRB12 MRB13

MRB14 MRB15 MRB16 MRB17 MRB18 MRB19 MRB20

MRB21

S802

(BLUE) +10V

(YEL.)

0V

RL801a

ATC 260V

(RED)

(BLK.)

TAPE

(GRN.) 100/200V

(WHT.) 120/220V

(VIOLET) 240V

FSB01

FSB02

SK 8

SA1

RL 2 C-F

(GRN/YEL)

+500V

FSB03

CB04 200

+515V

FSB04

RB12 100k

RB13 22k

+21·6V

FSB05

CB05 100

RB08 22k

RL800a

RL 800c

CB06 100

RB09 1k

RB10 1k

(V810b)

-98V

CB00 100

RB11 47k

RB14 47k

-11·5V

CB01 5000

FSB07

RL800d

RB07 10

V804

RL800a-d V-5681

PIN 1 (RED/YELLOW) MIN 23

V802a 6080

V802b 6080

V803 6080

RB15 100

RB16 100

RB17 100

RB18 100

RB19 100

RB20 3·3k

RB21 3·3k

RB22 3·3k

RB27 1k

RB28 1k

RB29 1k

RB30 1k

RB31 1k

RB32 2·2k

RB33 4·7k

RB23 2k

RB24 1M

RB25 2·2k

RB26 2·2k

RB34 50k

RB35 33k

RB36 220k

RB37 4·7k

-30V

+55V

-3·4V

-7·1V

-6·9

-11·5V

-6·9V

-3·5V

VT801 OC25

VT802 2N1553

VT803 GET102

MR822 22A39F

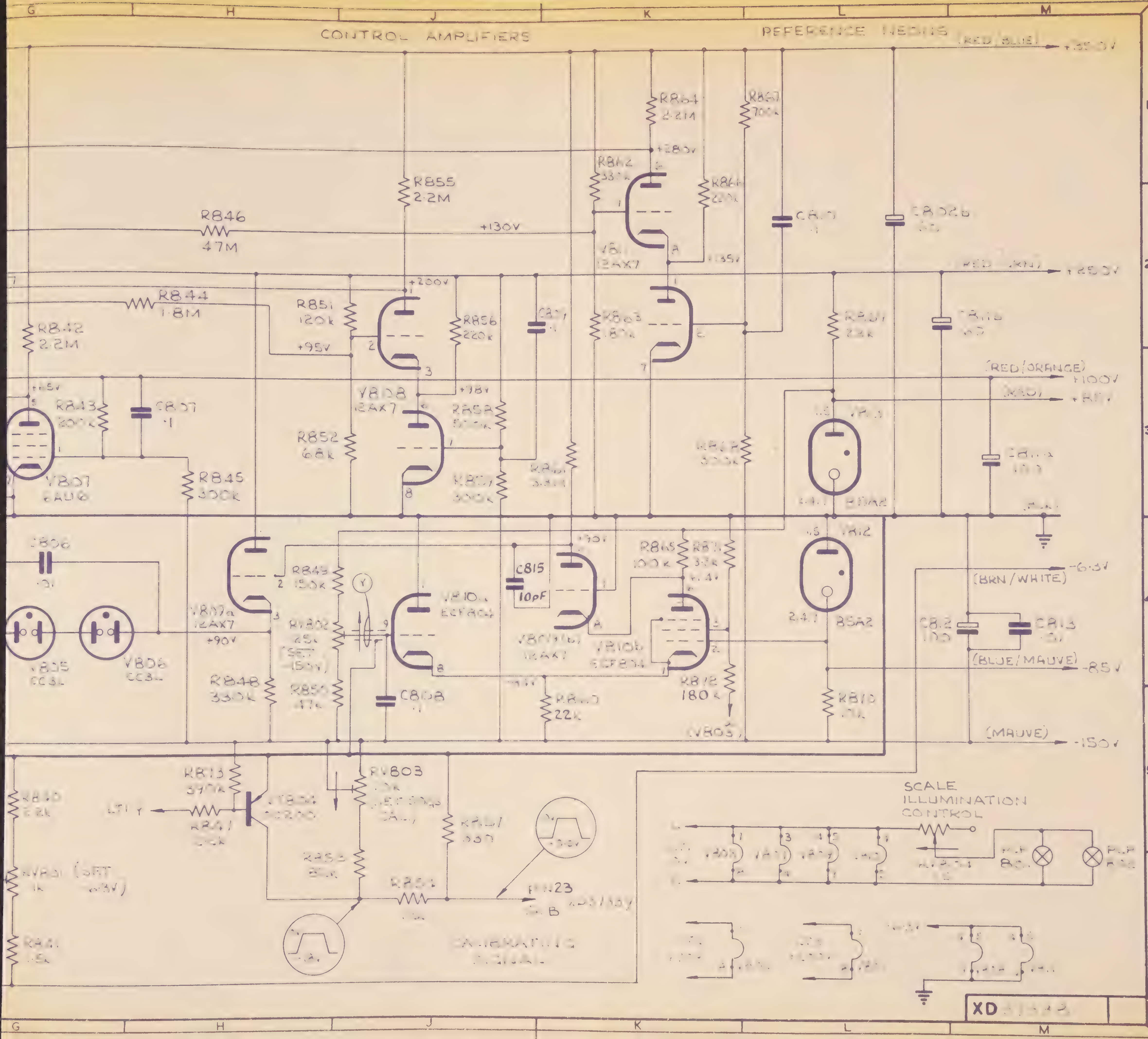
RED

YEL.

SEE NOTE

CB07 ·01

TITLE							
POWER SUPPLY							
DRAWN	DATE	CHKD	APPD.	TRC'D.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
N.C. EDWARDS	8-1-64	T. W.	D.R.W.	E.M.A.	TU34200	TP1200	XD37338
MARCONI INSTRUMENTS LTD.							SHEET . OF . SHEETS


CONTROL AMPLIFIERS
REFERENCE NEONS
R846
47M
+130V
R855
2.2M
R844
1.8M
R842
2.2M
R851
120k
+95V
+200V
R856
220k
V808
12AX7
+78V
R852
68k
R843
C807
·1
V807
6AU6
R845
300k
R864
2.2M
+280V
R862
R866
V811
12AX7
R863
R867
C806
·01
V805
CC3L
V806
CC3L
V807a
12AX7
+90V
R849
150k
R848
330k
V810a
ECF804
C815
10pF
V809(b)
12AX7
V810b
ECF804
R865
100k
R871
3.3k
R812
180k
C808
·1
22k
(V803)
VR12
85A2
(BRN/WHITE)
-6.3V
(RED/ORANGE)
+100V
C812
C813
(BLUE/MAUVE)
-85V
(MAUVE)
-150V
RV803
R813
SCALE
ILLUMINATION
CONTROL
PLP23
XD
G
H
J
K
L
M
1
2
3
4
5
6

ISSUE No. 3

C.R REF.	DESCRIPTION	GRID	STOCK No.	C.R REF.	DESCRIPTION	GRID	STOCK LIST REF.
	RESISTORS.			R826	2·2KΩ ± 5% 1W	E4	7 TM [illegible]
R800	18KΩ ± 10% ½W	C1	111 TF 2200	R827	1KΩ ± 10% ½W	F1	107 TF 2200
R801	220KΩ ± 10% ½W	C1	120 TF 2200	R828	1KΩ ± 10% ½W	F2	107 TF 2200
R802	47KΩ ± 10% ½W	C1	113 TF 2200	R829	2·2KΩ ± 5% 1W	F2	7 TM [illegible]
R803	470KΩ ± 10% ½W	C1	121 TF 2200	R830	1KΩ ± 10% ½W	F4	107 TF 2200
R804	470KΩ ± 10% ½W	C7	5 TM 6818	R831	1KΩ ± 10% ½W	F4	107 TF 2200
R805	470KΩ ± 10% ½W	C7	5 TM 6818	R832	22KΩ ± 10% ½W	F5	[illegible]
R806	470KΩ ± 10% ½W	C7	5 TM 6818	R833	27KΩ ± 10% ½W	F5	125 TF 2200
R807	470KΩ ± 10% ½W	C7	5 TM 6818	R834	150KΩ ± 10% ½W	F2	117 TF 2200
R808	22KΩ ± 10% ½W	C7	134 TF2200	R835	27KΩ ± 10% ½W	F7	112 TF2200
R809	1KΩ ± 5% 5W	D6	161 TF 2200	R836	220KΩ ± 10% ½W	F5	119 TF2200
R810	4·7KΩ ± 5% 5W	D4	167 TF 2200	R837	1KΩ ± 10% ½W	G2	107 TF2200
R811	6·8KΩ ± 5% 10W	D5	164 TF 2200	R838	1KΩ ± 10% ½W	G3	107 TF2200
R812	100KΩ ± 10% ½W	E2	115 TF 2200	R839	4·7KΩ ± 10% ½W	G4	109 TF2200
R813	22KΩ ± 10% ½W	E7	128 TF 2200	R840	2·2KΩ ± 5% ½W	G5	98 TF2200
R814	47KΩ ± 10% ½W	E5	113 TF2200	R841	1·5KΩ ± 5% ½W	G6	97 TF2200
R815	100Ω ± 5% 5W	E1	162 TF 2200	R842	2·2MΩ ± 10% ½W	G2	125 TF 2200
R816	100Ω ± 5% 5W	E1	162 TF2200	R843	200KΩ ± 1% ½W	G3	156 TF2200
R817	2·2KΩ ± 5% 14W	E2	7 TM 6852	R844	1·2MΩ ± 10% ½W	G7	124 TF2200
R818	100Ω ± 5% 5W	E4	162 TF 2200	R845	200KΩ ± 1% ½W	H7	157 TF2200
R819	100Ω ± 5% 5W	E4	162 TF2200	R846	4·7MΩ ± 10% ½W	H2	127 TF2200
R820	2·2KΩ ± 5% 14W	E1	8 TM 6852	R847	2·2KΩ ± 10% ½W	H5	100 TF2200
R821	2·2KΩ ± 5% 14W	E1	8 TM 6852	R848	220KΩ ± 10% ½W	H5	120 TF2200
R822	2·2KΩ ± 5% 14W	E1	8 TM 6852	R849	150KΩ ± 5% 2W	H4	155 TF2200
R823	2KΩ ± 5% 14W	E2	8 TM 6852	R850	47KΩ ± 5% ½W	H5	131 TF2200
R824	1MΩ ± 10% ½W	E2	110 TF2200	R851	1·2KΩ ± 1% ½W	H7	176 TF2200
R825	2·2KΩ ± 5% 14W	E4	7 TM 6852	R852	68KΩ ± 10% ½W	H7	114 TF2200

DRAWN W.P.T.	CHKD.	USED ON TF 2200	COMPONENT LIST
DATE 23.11.61.	APPD.	SHT. 1 OF 7 SHTS.	XD_37338_ _ _
TRACED PKY	MARCONI INSTRUMENTS LTD.		

ISSUE No 3

CIR. REF	DESCRIPTION	GRID	STOCK LIST REF	CIR. REF	DESCRIPTION	GRID	STOCK LIST REF
R857	82KΩ ± 1% ½W	H5	154 TF 2200				
R854	12KΩ ± 5% ½W	H6	99 TF 2200				
R855	2·2MΩ ± 10% ½W	J2	125 TF 2200				
R856	220KΩ ± 10% ½W	J2	119 TF 2200				
R857	330Ω ± 1% ½W	J5	96 TF 2200				
R858	500KΩ ± 1% ½W	J3	158 TF 2200				
R859	300KΩ ± 1% ½W	J3	157 TF 2200				
R860	22KΩ ± 10% ½W	K5	128 TF2200				
R861	3·3MΩ ± 10% ½W	K3	126 TF 2200				
R862	330KΩ ± 10% ½W	K2	120 TF 2200				
R863	180KΩ ± 10% ½W	K2	118 TF 2200				
R864	2·2MΩ ± 10% ½W	K1	125 TF 2200				
R865	100KΩ ± 10% ½W	K4	115 TF 2200				
R866	220KΩ ± 10% ½W	K2	119 TF2200				
R867	700KΩ ± 1% ¾W	K1	159 TF 2200		VARIABLE RESISTORS.		
R868	300KΩ ± 1% ½W	K3	157 TF 2200	RV800			
R869	22KΩ ± 5% 2W	L2	142 TF 2200	RV801	1KΩ ± 20% 1W	G6	187 TF 2200
R870	10KΩ ± 5% ½W	L5	167 TF 2200	RV802	25KΩ ± 20% 1W	H4	190 TF 2200
R871	3·3KΩ ± 10% ½W	K4	170 TF 2200	RV803	10KΩ ± 20% 1W	J6	189 TF2200
R872	180KΩ ± 10% ½W	K5	118 TF 2200	RV804	25Ω ± 10% 2W	M5	191 TF 2200
R873	300KΩ ± 10% ½W	H5	153 TF 2200				

DRAWN W.P.E.	CHKD.	USED ON TF 2200	COMPONENT LIST XD37338
DATE 18.10.61	APPD.	SHT. 2 OF 5 SHTS.	
TRACED PKY	MARCONI INSTRUMENTS LTD.		

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF	CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF
	CAPACITORS.				VALVES.		
C800	100uF +50% -20% 450V	D4	199 TF 2200	V801	6080	[illegible]	302 TF 2200
C801	5000uF +100% -20% 25V	D5	201 TF 2200	V802A	6080	E2	[illegible]
C802A	100uF +50% -20% 450V	D3	203 TF 2200	V802B		E2	302 TF 2200
C802B	60uF +50% -20% 450V	L2	203 TF 2200	V803	6080	[illegible]	[illegible]
C803	100uF +50% -20% 450V	D2	199 TF 2200	V804	VLS 631	D6	[illegible]
C804	200uF +50% -20% 350V	E2	200 TF 2200	V805	CCZL NEON	G4	225 [illegible]
C805	.01uF +80% -20% 350V	F6	195 TF 2200	V806	CCZL NEON	G4	225 TF 2200
C806	.01uF + 20% 400V	G4	194 TF 2200	V807	6AU6	G3	304 TF 2200
C807	.1uF + 20% 400V	G3	206 TF 2200	V808	12AX7	J3	305 TF [illegible]
C808	.1uF + 20% 400V	G4	206 TF 2200	V809A	12AX7	H4	305 TF 2200
C809	.1uF + 20% 400V	J2	206 TF 2200	V809B		K4	305 TF [illegible]
C810	.1uF + 20% 400V	L2	206 TF 2200	V810A	ECF 804	J4	306 TF [illegible]
C811A	100uF +50% -20% 350V	M3	204 TF 2200	V810B		K4	306 TF 2200
C811B	60uF +50% -20% 350V	L2	204 TF 2200	V811	12AX7	K2	305 TF [illegible]
C812	100uF +50% -20% 200V	M4	202 TF 2200	V812	85A2	L3	307 TF [illegible]
C813	.01uF +50% -20% 350V	M4	195 TF 2200	V813	85A2	L4	307 TF 2200
C814	.01uF +50% -20% 350V	C1	195 TF 2200				
C815	10pF ± ½pF 750V	J4	211 TF 2200				

DRAWN W.B.F.	CHKD.	USED ON TF 2200	COMPONENT LIST XD 37338
DATE 18.10.51.	APPD.	SHT. 7 OF 5 SHTS.	
TRACED. SKY	MARCONI INSTRUMENTS LTD.		

CIR REF	DESCRIPTION	GRID	STOCK LIST REF
	TRANSISTORS.		
VT801	OC 25	F6	220 TF 2200
VT802	2N 1553	F5	221 TF 2200
VT803	GET 102	F6	222 TF 2200
VT804	OC 200	45	227 TF 2200
	SWITCHES.		
S801	D.P.D.T. MAINS.	B5	41 [illegible]
S802	THERMAL CUT OUT	B2	[illegible] TF 2200
	TRANSFORMERS.		
T801	MAINS 200V - 100V	C	4 TF 2200
	PILOT LAMP.		
PL801			
PL801	GRATICULE ILLUM.	M6	[illegible] TF 2200

CIR REF	DESCRIPTION	GRID	STOCK LIST REF
PL802	GRATICULE ILLUM.	M6	232 TF 2200
	FUSES.		
FS801			
FS801	5A FOR 200V 10A FOR 100V	B4	230 231 TF [illegible]
FS802	5A FOR 200V 10A FOR 100V	B4	230 231 TF [illegible]
FS803	500MA	F1	223 TF [illegible]
FS804	500MA	[illegible]	[illegible]
FS805	500MA	[illegible]	[illegible]
FS806	500MA	F5	[illegible]
F801	5A	B5	230 TF [illegible]
	RECTIFIERS AND DIODES.		
MR801			
MR801	IN540	[illegible]	[illegible]
MR802	IN540	[illegible]	[illegible]
MR803	IN540	[illegible]	[illegible]
MR804	IN540	[illegible]	[illegible]
MR805	IN540	[illegible]	[illegible]
MR806	IN540	[illegible]	[illegible]
MR807	IN540	[illegible]	[illegible]

DRAWN W.B.E.	CHKD.	USED ON TF 2200
DATE 18.10.61.	APPD. [illegible]	SHT 4 OF 5 SHTS.
TRACED PKY	MARCONI INSTRUMENTS LTD.	

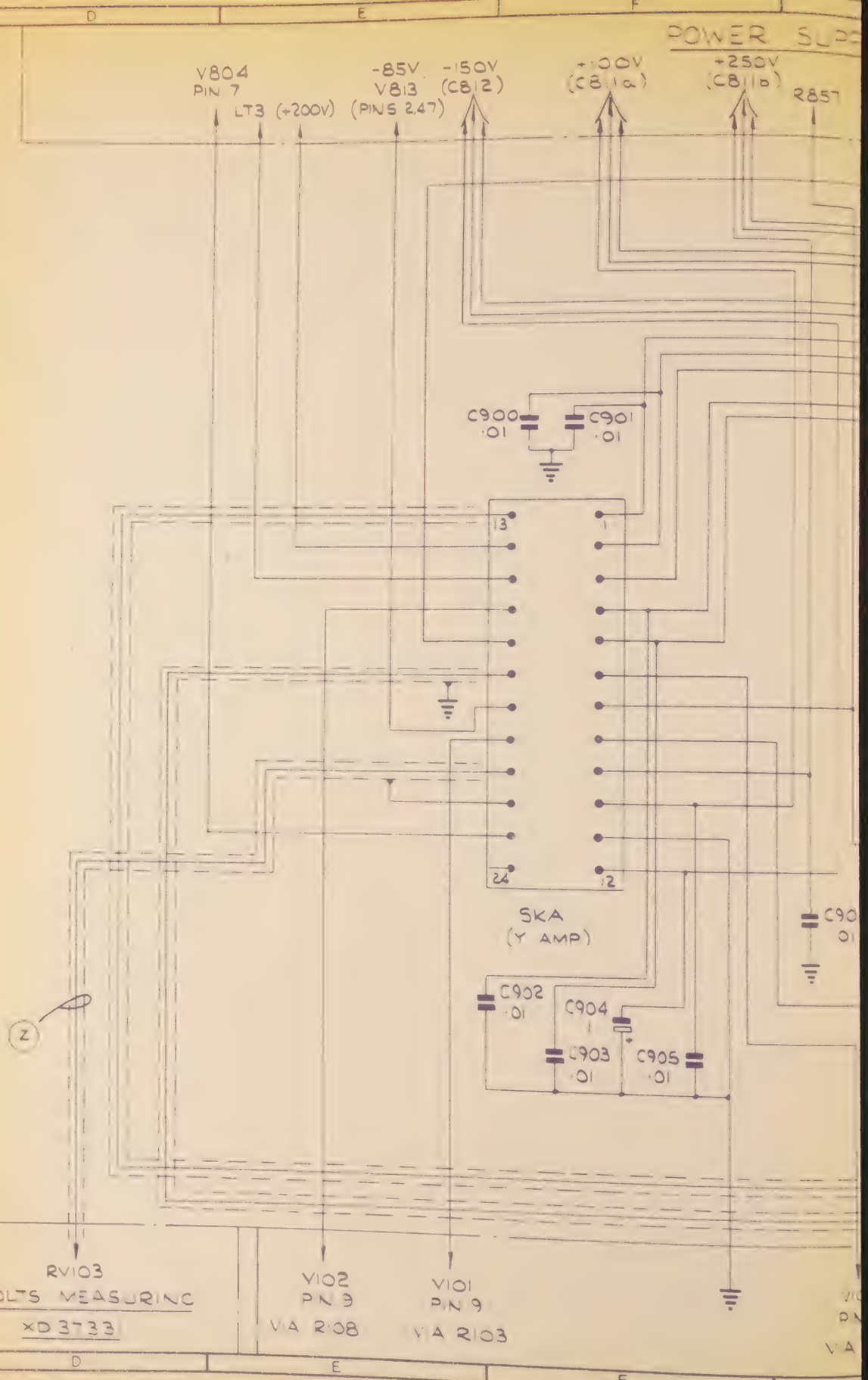
COMPONENT LIST
XD 37338

ISSUE No

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
MR808	IN 540	C3	8 TM 6818
MR809	IN 540	C3	8 TM 6818
MR810	IN 540	C3	8 TM 6818
MR811	IN 540	C3	8 TM 6818
MR812	IN 540	C3	8 TM 6818
MR813	IN540	C4	8 TM 6818
MR814	IN 540	C4	8 TM 6818
MR815	IN 540	L4	8 TM 6818
MR816	IN 540	C4	8 TM 6818
MR817	IN 540	C4	8 TM 6818
MR818	IN 540	C4	8 TM 6818
MR819	IN 540	C4	8 TM 6818
MR820	IN540	C4	8 TM 6818
MR821	2 DS500	C5	226 TF2200
MR822	Z2A39F (± 10%)	F5	224 TF 2200

CIR REF.	DESCRIPTION	GRID	STOCK LIST REF
	RELAYS.		
RL800	COIL	D6	227 TF2200
RL800A		D2	227 TF2200
RL800B	100/1·7/GG2/5·3/ 4 P.C.O.	D7	227 TF2200
RL800C		C5	227 TF2200
RL800D		D6	227 TF2200
	BLOWER.		
BL800	2800RPM. ANTI-C	B2	235 TF 2200

DRAWN W.B.E.	CHKD.	USED ON TF 2200	COMPONENT LIST XD37338
DATE 18.10.61.	APPD	SHT. 5 OF 5 SHTS	
TRACED. PKY	MARCONI INSTRUMENTS LTD.		



TITLE

SOCKET CONNECTION DIAGRAM

DRAWN	DATE	CHKD	APPD	TRCD.	ASSEMBLY	STOCK LIST	DRAWING NUMBER
W B EDWARDS	22-11-61		D R W	E M M.	TE34800	TF2200	XD37339

MARCONI INSTRUMENTS LTD.

SHEET 1 OF 1 SHEETS

XD 37338

FS802 FS80 MAINS N L +350V (C802b) +85V (V812 PINS 1&5) -6.3V D.C. (VT802e) T801 -T E LT2 +70V

X907 X908 X90 X902 X909 X910 X911 X915 X912 X903 X904 .01 C907 X913 X905 X906 X914 C917 .01 24 12 SKB (TRIC BOARD) Z Y

X927 X928 X923 X924 X929 C908 C909 .01 C910 .01 X921 X925 X926 X930 X93 X932 C911 .01 X922 C912 .01 X933 X934 C913 .01 C914 16 X916 X919 X920 C915 16 C916 6 X917 X918 24 12 SKC (TIME BASE)

CABLE MARKED :- Z TO BE BICC T3201 (M.I. 1561-164)

CABLE MARKED :- Y TO BE TRANSRADIO C01-T

C174 R132 R166

Y- AMPLIFIER XD37331

XD 37339

ISSUE Nº 6

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	CAPACITORS.		
C900.	·01μF +80% -20% 350V	F2	195 TF 2200.
C901	·01μF +80% -20% 350V	F2	195 TF 2200
C902	·01μF +80% -20% 350V	E5	195 TF 2200
C903	·01μF +80% -20% 350V	F5	195 TF 2200
C904	1μF +50% -20% 450V	F5	196 TF 2200
C905	·01μF +80% -20% 350V	F5	195 TF 2200
C906	·01μF +80% -20% 350V	G4	195 TF 2200
C907	·01μF +80% -20% 300V	H4	207 TF 2200
C908	·01μF +80% -20% 350V	K3	195 TF 2200
C909	·01μF +80% -20% 350V	K3	195 TF 2200
C910	·01μF +80% -20% 350V	K3	195 TF 2200
C911	·01μF +80% -20% 350V	K3	195 TF 2200
C912	·01μF +80% -20% 350V	K3	195 TF 2200
C913	·01μF +80% -20% 350V	K4	195 TF 2200
C914	16μF +50% -20% 350V	K4	210 TF 2200
C915	16μF +50% -20% 350V	K4	210 TF 2200
C916	16μF +50% -20% 350V	K4	210 TF 2200
C917	·01μF +80% -20% 350V	G4	195 TF 2200

CIR. REF.	DESCRIPTION	GRID	STOCK LIST REF.
	MISCELLANEOUS.		
X901 TO X934	FERRITE BEAD		297 TF 2200
	MULLARD FX1065/28		
	SOCKETS.		
SKA	24 WAY	F	237 TF 2200
SKB	24 WAY	H	237 TF 2200
SKC	24 WAY	K	237 TF 2200

DRAWN W.B.E.	CHKD. J.D.M.	USED ON TF 2200	COMPONENT LIST XD37339
DATE 27.11.61	APPD. D.R.W.	SHT. 1 OF 1 SHTS.	
TRACED. PKY	MARCONI INSTRUMENTS LTD.		

20 FEB 1964
MARCONI